

SERVICE MANUAL

Remote Control Digital Color Television

DP32746 (U.S.A.)
(CANADA)

ORIGINAL VERSION



Chassis No. P32746-00

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You **must** refer to "Notices" to the Original Service Manual prior to servicing the unit.

Servicing should be performed by only trained and qualified service personnel.

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Specifications

Power Rating	120VAC
	155W (Avg), 2.7A (Max)
Antenna Input Impedance	75Ω
	UHF/VHF/CATV
Receiving Channel	2 - 13 (VHF),
	14 - 69 (UHF),
	01, 14-94, 95-125 (CATV)
Remote Ready	32 Key Remote Control
Sound Output	3.0 W/CH
Intermediate Frequency	
Picture IF Carrier	45.75MHz
Sound IF Carrier	41.25MHz
Color Sub Carrier	42.17MHz
LCD	T315XW01 V5
Cabinet Dimensions	
Width	812mm
Height	614mm
Depth including base	201mm

SAFETY INSTRUCTIONS

SAFETY PRECAUTIONS

WARNING: The chassis of this receiver has a floating ground with the potential of one half the AC line voltage in respect to earth ground. Service should not be attempted by anyone not familiar with the precautions necessary when working on this type of equipment.

The following precautions must be observed:

1. An isolation transformer must be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Comply with all caution and safety-related notes provided on the side of the cabinet, inside the cabinet, and on the chassis.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers, shields and barriers.
4. Before replacing the back cover of the set, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any television to the customer, the service technician must perform the following safety checks to be sure that the unit is completely safe to operate without danger of electrical shock.

ANTENNA COLD CHECK

Remove AC plug from the 120 VAC outlet and place a jumper across the two blades. Connect one lead of an ohmmeter to the jumpered AC plug, and touch the other lead to each exposed antenna terminal (UHF and VHF antenna terminals). The resistance must measure between 1M ohm and 5.2M ohm. Any resistance value below or above this range indicates an abnormality which requires corrective action.

LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120 VAC outlet. (Do not use an isolation transformer for this check.) Use an AC voltmeter, that has 5000 ohms per volt or more sensitivity. Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 μ F 150 VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of the cabinet (antennas, handle bracket, metal cabinet, screw heads, metal overlays, control shafts, etc.). Measure the AC voltage across the 1500 ohm resistor. The AC voltage should not exceed 750 mV. A reading exceeding 750 mV indicates that a dangerous potential exists. The fault must be located and corrected. Repeat the above test with the receiver power plug reversed.

NEVER RETURN A RECEIVER TO THE CUSTOMER WITHOUT TAKING THE NECESSARY CORRECTIVE ACTION.

PRODUCT SAFETY NOTICE

When replacing components in a receiver, always keep in mind the necessary product safety precautions. Pay special attention to the replacement of components marked with a star (★) in the parts list and in the schematic diagrams. To ensure safe product operation, it is necessary to replace those components with the exact same PARTS.

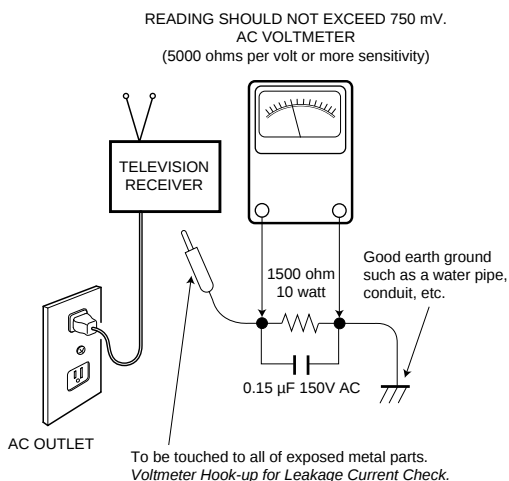
SERVICING ELECTROSTATICALLY SENSITIVE DEVICES

Semiconductors (solid-state devices) that can be damaged by static electricity are referred to as Electrostatically Sensitive (ES) devices. Examples of typical ES devices are: Integrated Circuits (IC), Field-Effect Transistors (FET), and "chip" components. The following techniques should be observed strictly, to reduce the occurrence of semiconductor damage due to electrostatic discharge.

1. Immediately prior to handling any semiconductor component or an assembly containing a semiconductor device or devices, discharge the electrostatic buildup on your body by touching a known earth ground. You may also obtain and wear a commercially available discharging wrist strap device.

CAUTION: Be sure to remove the wrist strap before applying power to any unit being serviced.

2. After removing an ES equipped assembly, place it on a conductive surface, such as, aluminum foil, to prevent buildup or exposure to static electricity.
3. Use only grounded-tip soldering irons to solder or unsolder ES devices.
4. Use only anti-static solder removal devices. Some suction-type devices can generate static electricity adequate to damage ES devices.
5. A replacement ES device will come packaged in protective material (conductive foam, aluminum foil, or some comparable conductive material). Do Not remove an ES device from its protective packaging unless you are prepared to install it immediately.
6. Precisely prior to removing an ES device from its protective packaging, touch the protective packaging to the chassis or assembly in which the device will be installed.
CAUTION: Be sure that no power is applied to the chassis or circuit assembly.
7. Incidental body movements, such as, lifting a foot from a carpeted floor or the rubbing of fabric together can generate static electricity sufficient to damage ES devices. Therefore, minimize all body movements while handling exposed (unpacked) ES devices.



SERVICE ADJUSTMENTS

GENERAL

This set has an On-screen Service Menu system included in the CPU that allows remote operation for most of the service adjustments.

ON-SCREEN SERVICE MENU SYSTEM

1. Enter the Service Menu:

- Turn off the receiver and disconnect the AC power supply.
- While pressing the Volume (–) button on the television, reconnect the AC power supply. The Service Menu will now appear. The remote can now be used to make adjustments. See Figure 1 below.

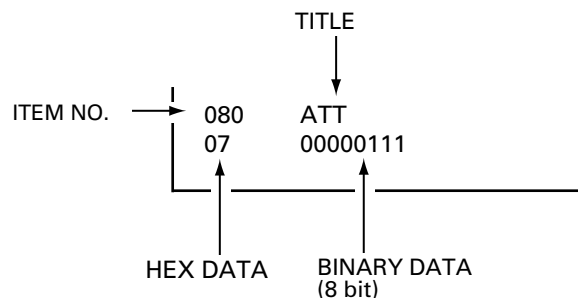


Figure 1. Service Menu Display

2. Service Adjustments:

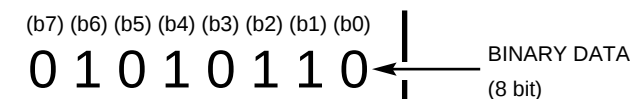
- Press the **Channel ▲** or **▼** key to select the desired service menu item you want to adjust. See page 4 for the On-screen Service Menu.
- Use the **Volume +** or **–** key or number keys to adjust the data.

The + or – keys will increase or decrease the data sequentially. The number keys (0 ~ 7) toggle only their respective bits between 1 and 0 and are used to change the Sub-Address. For example to change bit 5 press the number 5 key. See below.

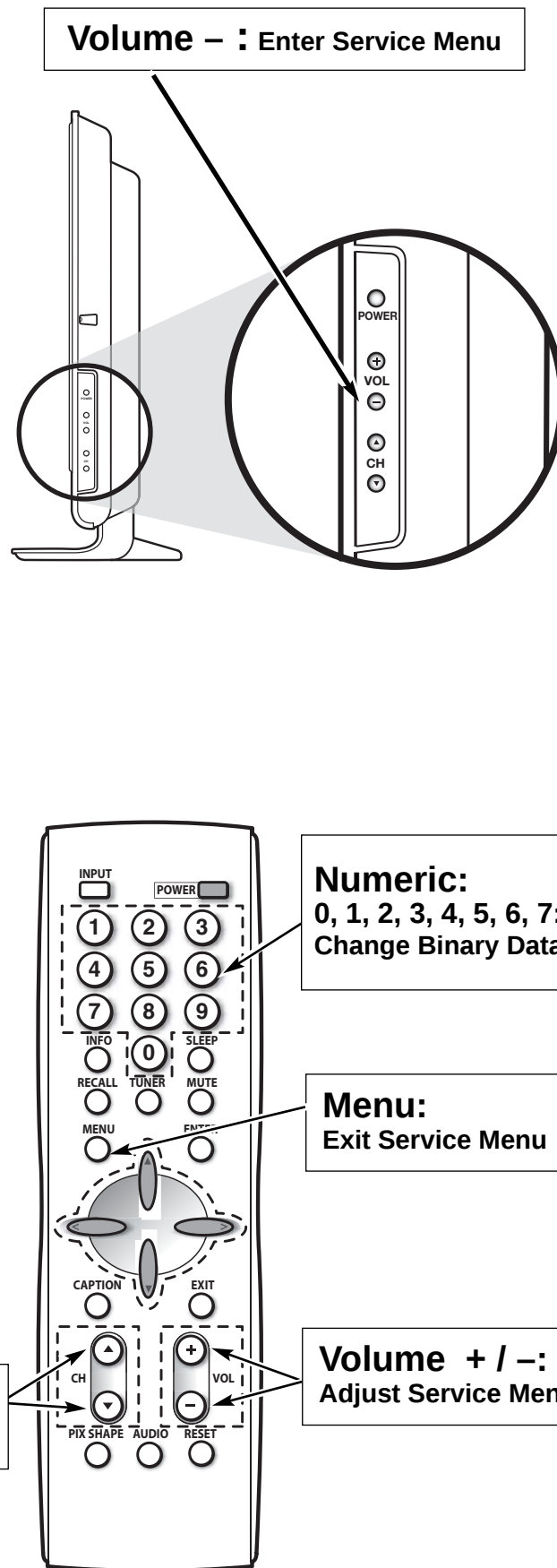
Note: Using the + or – is not recommended due to possible rapid changes.

3. Exit from the Service Menu:

- Press the **MENU** key to turn off the Service Menu display.



Channel ▼ ▲:
Select Item



ON-SCREEN SERVICE MENU

Table 1. ON-SCREEN SERVICE MENU

When IC802 (EEPROM) is replaced, check the bus data to confirm they are the same as below. The shaded menu should be checked and be set up or readjusted according to the procedures described in the following pages. Initial Setup Data marked with an * should be changed from Initial Reference Data. See page 3 for On-Screen Service Menu access and adjustments.

No.	TITLE	INITIAL REFERENCE DATA HEX	INITIAL SETUP DATA HEX	INITIAL SETUP DATA BINARY	FUNCTION
080	ATT	07	07	00000111	Attenuation -MTS Input Level (3~0)
081	SPC	20	20	00100000	Spectral - High Separation (5~3)
082	WDB	20	20	00100000	Wide Band - Low Separation (5~0)
083	SCO	00	00	00000000	Sub Color (NOT AVAILABLE)
084	STI	00	00	00000000	Sub Tint (NOT AVAILABLE)
085	SB	00	00	00000000	Sub Bright (NOT AVAILABLE)
086	SSH	00	00	00000000	Sub Sharpness (NOT AVAILABLE)
087	OP1	09	09	00001001	b4:26=1, b3:W/HDMI=1, LCD b1,b0=0
088	OP2	00	00	00000000	b1:Aspect 16:9=1, 4:3=0
1C0	↓	↓	↓	00000000	Not Used
1FF	↓	↓	↓	↓	Not Used
200	1R01	00	00	00000000	ROM Correction Data
↓	↓	↓	↓	↓	↓
298	2R48↓	00	00	00000000	ROM Correction Data

- All data except in gray box area is fixed. Do not change for correct operation.
- Data in gray box is initial. Can be set according to adjustment information.

PROGRAM CODES

The microprocessor used in this model is a multi-purpose type and is used in several different models. To ensure proper operation and the correct features for your particular model, the program codes must be correct.

Note 1. Option Data 1 (NO. 087 OPT) should be hexadecimal 09 (00001001 binary). See 087 above. If this program code is wrong the TV will not operate properly.

Note 2. Option Data 2 (NO. 088 OP2) should be hexadecimal 00 (00000000 binary). See 088 above. If this program code is wrong the TV will not operate properly.

SERVICE ADJUSTMENTS (Continued)

MULTI-SOUND SECTION ADJUSTMENTS

Note: Multi-Sound Section must be adjusted after A101 (U/V Tuner), IC3401 (MTS Decoder), Digital Module or IC802 (EEPROM) is replaced.

INPUT LEVEL ADJUSTMENT

1. Connect a signal to the analog antenna terminal with audio of 1 KHz 100% modulation.
2. Turn off the receiver and disconnect the AC power cord (AC 120V line).
3. Connect voltmeter (RMS) to TP317 and ground on the Main PC board.
4. While pressing the VOLUME – key, reconnect the AC power cord. The Service Menu will now appear.
5. Select NO. 080 (ATT: MTS Input Level) with the ▲ or ▼ key.
6. Adjust the + or – key for a voltmeter reading of 400 ± 20 mVrms at TP317.

SEPARATION ADJUSTMENT

7. Turn off the receiver and disconnect the AC power cord (AC 120V line).
8. Connect oscilloscope CH1 to TP317 and CH2 to TP318 and ground.
9. Connect an MTS TV/Stereo generator to antenna terminal.
10. While pressing the VOLUME – key, reconnect the AC power cord. The Service Menu will now appear.
11. Select pilot, 300Hz audio frequency and Left modulating signal.
12. Select NO. 082 (WDB: Wide Band) with the ▲ or ▼ key.
13. Adjust the + or – key for minimum low frequencies at TP317. See Figure 2.
14. Select 4 KHz audio frequency and Right modulating signal.
15. Select NO.0 81 (SPC: Spectral) with the ▲ or ▼ key.
16. Adjust the + or – key for minimum high frequencies at TP318. See Figure 2.

Repeat adjustments (steps 11–16) until no further decreases in amplitude can be obtained. Press the MENU key to turn off the Service Menu display.

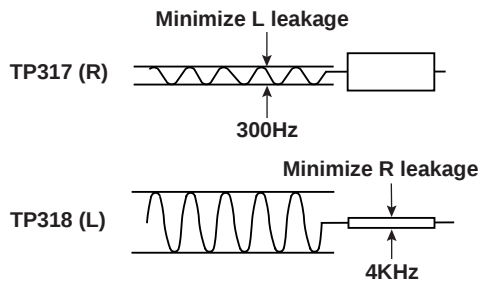


Figure 2. Separation Adjustments

POWER FAILURE CIRCUIT

This unit is equipped with a Power Failure Detector function included in the CPU which checks for an abnormal condition in the chassis power supplies, including the power supply for the LVDS (LCD Panel).

If, while the power is on, a failure is caused by any of the following that results in a low voltage supply, the CPU will turn the unit off in 1.5 seconds to prevent further damage:

- Failure within the power supply circuits.
- A short circuit in the load side from the supply.

1. **Power Failure:** Detected voltage failure for main board and digital board circuits. (Connected to IC801 pin 32.)
2. **Power Failure (LVDS):** Detected voltage failure for LCD panel. (Connected to IC801 pin 36.)

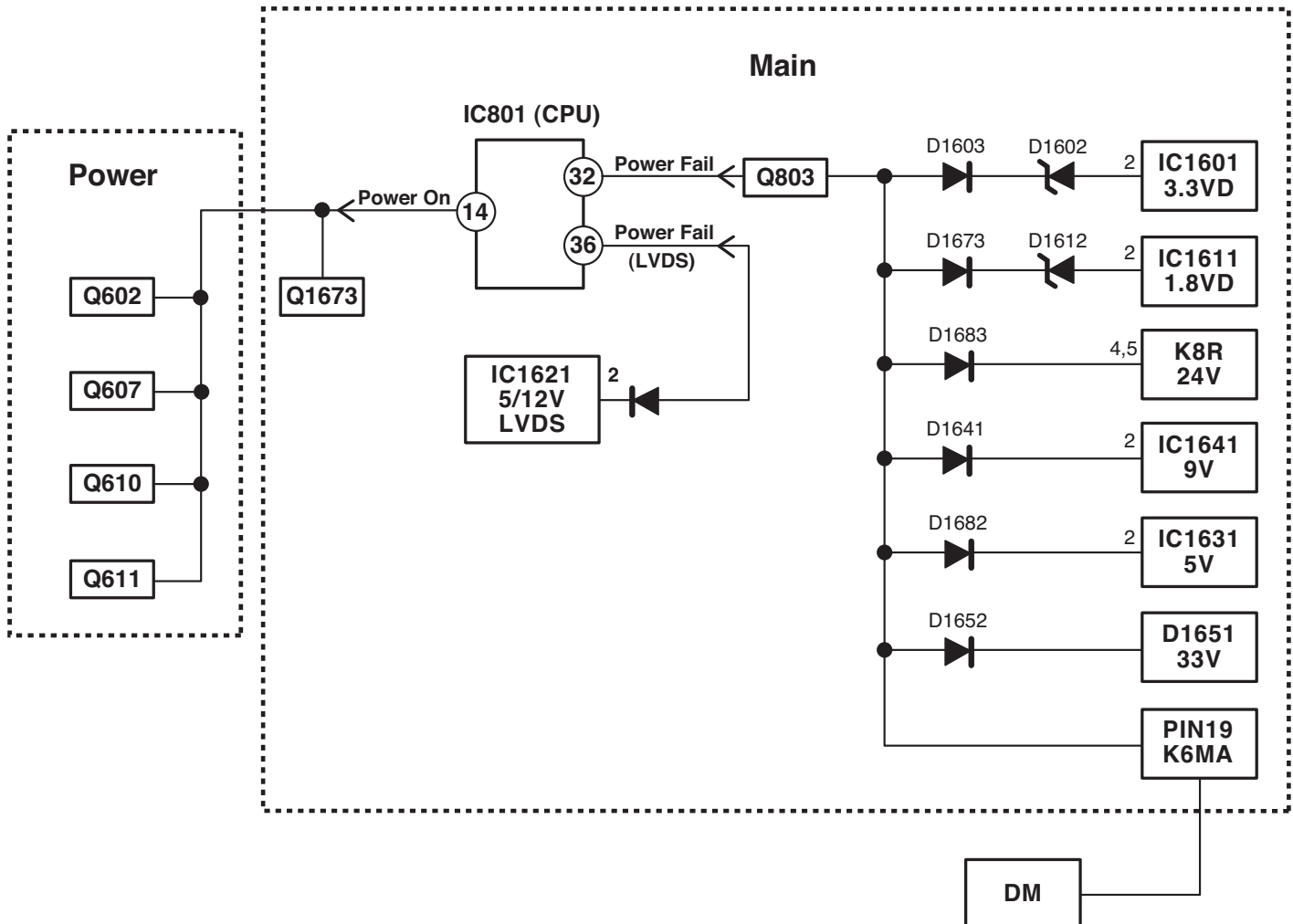
(Normal: High; Failure: Low)

If, while the power is off, the power is switched on and any of these failures remains uncorrected, the CPU will shut off the power within three seconds.

Check the following if the unit is turned off by the power failure detector.

1. Disconnect the AC power cord (120V AC line) for at least 10 seconds.
2. Connect a DC Voltmeter to the circuits shown below.
3. Press the Power key and check for the proper voltage supplies.
4. If any of these voltages is low, the power failure detector should turn the unit off within three seconds.
5. Check all circuits shown below.

Note: This unit is equipped with a Power Surge Protection feature included in the CPU. If power failure occurs three times within 15 minutes, the CPU will stop functioning automatically to help prevent secondary damage. (TV will not turn on by pressing the power key.) To reset the operating programs within the CPU, disconnect the AC power cord for at least 10 seconds.



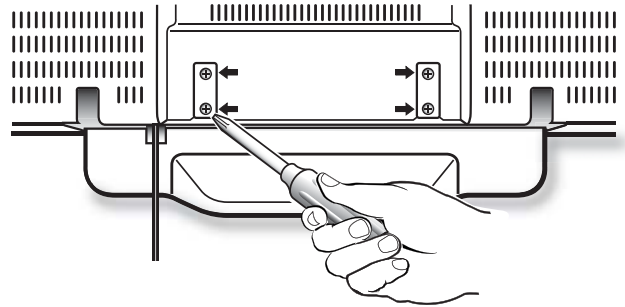
MECHANICAL DISASSEMBLY

CAUTION: This LCD TV uses several different kinds of screws. Using the correct screw is necessary to prevent damage. Lead wires must be redressed to their previous locations after servicing.

STAND REMOVAL

Note: Position TV face down on a padded or cushioned surface to protect the screen and finish.

Remove 4 screws “A” to take the stand off.

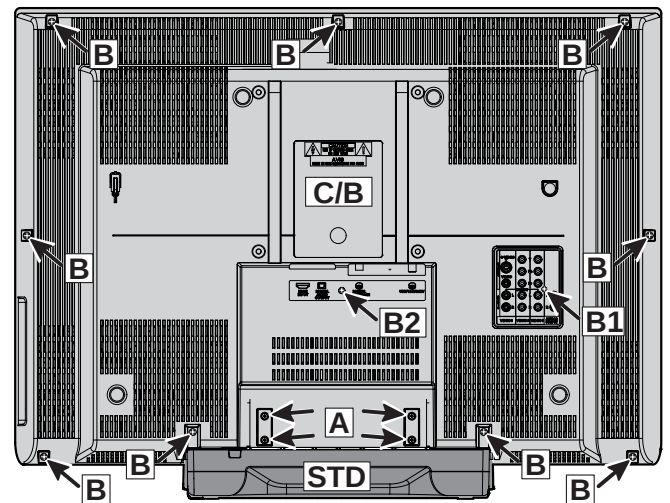


CABINET BACK REMOVAL

Remove 11 screws to take the cabinet back (C/B) off.

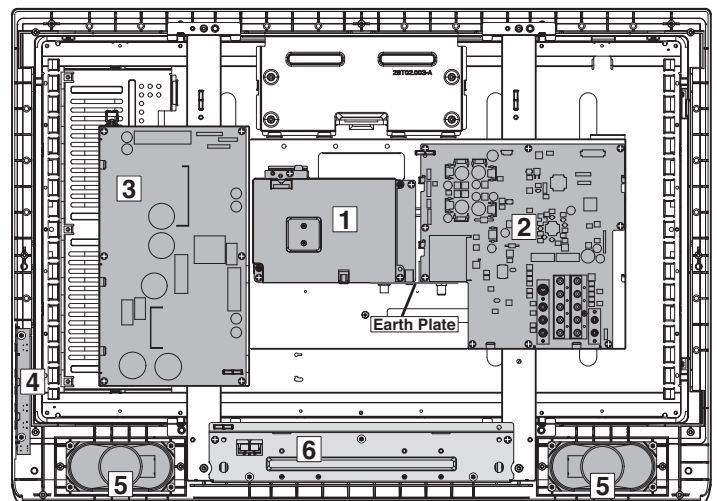
(B: 4X14 9pcs; B1: 3X8 1pc; B2: 4X8 1pc)

Note: The cabinet back can be removed without removing the stand.



CHASSIS AND PARTS LOCATIONS

1. Digital Board
2. Main Board
3. Power Board
4. Key Switch Board
5. Speakers
6. Mounting stand (stand base)



MECHANICAL DISASSEMBLY (CONT.)

1: DIGITAL BOARD REMOVAL

- 1-1. Remove the tuner nuts from the analog and digital tuners and remove earth plate connecting the tuners.
- 1-2. Remove 4 screws (3X6) to take off the digital board.

2: MAIN BOARD REMOVAL

- 2-1. Remove the tuner nuts from the analog and digital tuners and remove earth plate connecting the tuners.
- 2-2. Remove 9 screws (3X6) to take off the main board.

3: POWER BOARD REMOVAL

- 3-1. Remove 6 screws (3X6) to take off the power board.

4: CONTROL BOARD REMOVAL

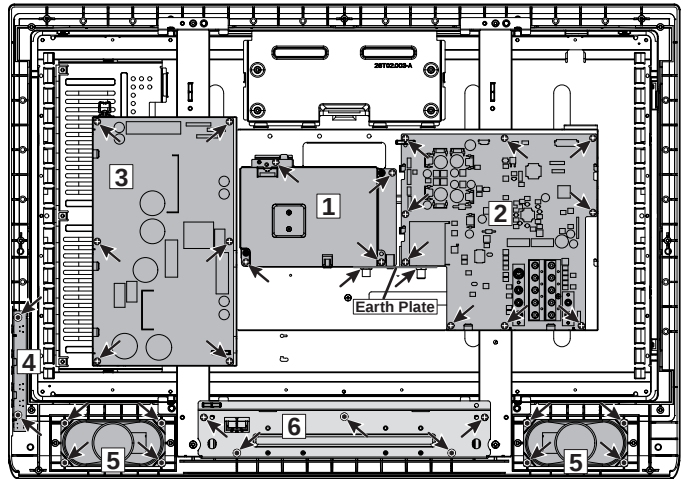
- 4-1. Remove 2 screws (4X14–special screw) to take off the control board.

5: SPEAKER REMOVAL

- 5-1. Remove 4 screws (4X14–special screw) to take off the speaker.

6: STAND BASE REMOVAL

- 6-1. Remove 5 screws to take off the stand base.
4X14–special screw 3 pcs
3X6 2 pcs.



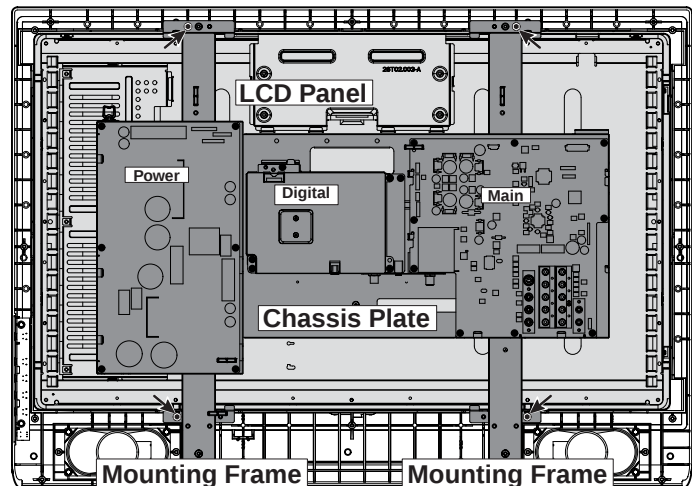
LCD PANEL REMOVAL

1: STAND BASE REMOVAL

- 1-1. Remove 5 screws to take off the stand base.
See above.

2: LCD PANEL REMOVAL

- 2-1. Disconnect the lead wires from the LCD panel, speakers, and control board.
- 2-2. Remove 4 screws (4X14–special screw) and take off the mounting frames with the chassis plate, power board, main board, and digital board.
- 2-3. Lift the LCD panel from the front cabinet.



CHASSIS ELECTRICAL PARTS LIST

CAUTION: To Protect against electrical shock and for continued product safety, refer to **SAFETY PRECAUTIONS**, and **PRODUCT SAFETY NOTICE** on Page 2.

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A STAR (★) IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS DESIGNATED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY A STAR. NO DEVIATIONS FROM RESISTANCE, WATTAGE, AND VOLTAGE RATINGS MAY BE MADE FOR REPLACEMENT ITEMS DESIGNATED BY A STAR.

Note: Schematic part location numbers may not always match with the part descriptions.
The part descriptions are correct and should be used.

Schematic Location	Part No.	Description
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CAPACITORS

NOTES:

Read description of the Capacitor as follows:

(Example)

CERAMIC	100P	K	50V
			Rated Voltage
			Tolerance Symbols: Less than 10pF
			A : Not specified B : ±0.1pF C : ±0.25pF
			D : ±0.5pF E : +0 -1pF F : ±1PF
			G : ±2pF H : +0.1 -0pF L : +0 -0.1pF
			R : ±0.25 -0pF S : +0-0.25pF
			More than 10pF
			A :Not specified B : ±0.1% C : ±0.25%
			D : ±0.5% F : ±1% G : ±2%
			H : ±3% J : ±5% K : ±10%
			L : ±15% M : ±20% N : ±30%
			P : +100-0% Q : +30-10% T : +50-10%
			U : +75-10% V : +20-10% W : +100-10%
			X : +40-20% Y : +150-10% Z : +80-20%
			Rated value: P=pico farad, U=micro farad
			Material:
			CERAMIC..... Ceramic
			MT-PAPER..... Metallized Paper
			POLYESTER..... Polyester
			MT-POLYEST.....Metallized Polyester
			POLYPRO..... Polypropylene
			MT-POLYPRO.... Metallized Polypropylene
			COMPO FILM..... Composite Film
			MT-COMPO..... Metallized Composite
			STYRENE..... Styrene
			TA-SOLID..... Tantalum Solid
			AL-SOLID..... Aluminium Solid
			ELECT..... Electrolytic
			NP-ELECT..... Non-polarised Electrolytic
			OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic

Schematic Location	Part No.	Description
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RESISTORS

NOTES:

Read description of the Resistor as follows:

(Example)

CARBON	4.7K	J	A	1/4W
				Rated Wattage
				Performance Symbols: A...General B...Non-flammable Z...Low noise Other... Temperature coefficient
				Tolerance Symbols: A...0.05% B...0.1% C...25% D...0.5% F...1% G...2% J...5% K...10% M...20% P...+5 -15%
				Rated Value, ohms: K...1,000 M...1,000,000
				Material:
				CARBON Carbon
				MT-FILMMetal Film
				OXIDE-MTOxide Metal Film
				SOLIDComposition
				MT-GLAZEMetal Glaze
				WIRE WOUNDWire Wound
				CERAMIC RES Ceramic
				FUSIBLE RES Fusible

Schematic Location	Part No.	Description
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MAIN PC BOARD

CAPACITORS

C002	CEXLB1E101WAN	ELECT	100U M	25V
C004	CK1H472KLZBNG	CERAMIC	4700P K	50V
C005	CPXLB1C100ZAN	NP-ELECT	10U M	16V
C007	CK1H472KLZBNG	CERAMIC	4700P K	50V
C008	CPXLB1C100ZAN	NP-ELECT	10U M	16V
C009	CEXLB1H4R7WAN	ELECT	4.7U M	50V
C012	CEXLB1V222WAN	ELECT	2200U M	35V
C013	CEXLB1E102WAN	ELECT	1000U M	25V
C014	CEXLB1E102WAN	ELECT	1000U M	25V
C101	CK1H103ZLZFN	CERAMIC	0.01U Z	50V
C102	CK1H103ZLZFN	CERAMIC	0.01U Z	50V
C105	CK1H103ZLZFN	CERAMIC	0.01U Z	50V
C106	CEXLB1H470WAN	ELECT	47U M	50V
C107	CEXLB1A222WAN	ELECT	2200U M	10V
C805	CC1H220JLZCNG	CERAMIC	22P J	50V
C806	CC1H220JLZCNG	CERAMIC	22P J	50V
C807	CK1H103ZLZFN	CERAMIC	0.01U Z	50V
C811	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C813	CEXLB1A470WAN	ELECT	47U M	10V
C814	CK1H222KLZBNG	CERAMIC	2200P K	50V
C815	CC1H220JLZCNG	CERAMIC	22P J	50V
C816	CC1H220JLZCNG	CERAMIC	22P J	50V
C820	CK1H103ZLZFN	CERAMIC	0.01U Z	50V
C825	CC1H330JLZCNG	CERAMIC	33P J	50V
C826	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C827	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C829	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C834	CEXLB0J471WAN	ELECT	470U M	6.3V
C835	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C836	CC1H120JLZCNG	CERAMIC	12P J	50V
C837	CC1H120JLZCNG	CERAMIC	12P J	50V
C838	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C839	CK1H103ZLZFN	CERAMIC	0.01U Z	50V
C840	CK1H333KLZBNG	CERAMIC	0.033U K	50V
C841	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C842	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1001	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1002	CEXLB1C100WAN	ELECT	10U M	16V
C1003	CEXLB1C100WAN	ELECT	10U M	16V
C1004	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C1005	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C1021	CEXLB1C101WAN	ELECT	100U M	16V
C1022	CEXLB1C100WAN	ELECT	10U M	16V
C1023	CEXLB1C100WAN	ELECT	10U M	16V
C1024	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1025	CEXLB1C100WAN	ELECT	10U M	16V
C1026	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C1027	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C1061	CEXLB1C331WAN	ELECT	330U M	16V
C1062	CEXLB1C100WAN	ELECT	10U M	16V

C1063	CEXLB1C100WAN	ELECT	10U M	16V
C1064	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1065	CEXLB1C100WAN	ELECT	10U M	16V
C1066	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C1067	CEXLB1H2R2WAN	ELECT	2.2U M	50V
C1101	CEXLB1E4R7WAN	ELECT	4.7U M	25V
C1102	CEXLB1E4R7WAN	ELECT	4.7U M	25V
C1201	CEXLB1C101WAN	ELECT	100U M	16V
C1202	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1203	CEXLB1H100WAN	ELECT	10U M	50V
C1204	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1251	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1252	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1601	CEXLB1C102WAN	ELECT	1000U M	16V
C1602	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1604	CEXLB0J102WAN	ELECT	1000U M	6.3V
C1605	CH1H105JAGANN	MT-COMPO	1U J	50V
C1611	CEXLB1C102WAN	ELECT	1000U M	16V
C1612	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1614	CEXLB0J102WAN	ELECT	1000U M	6.3V
C1615	CH1H105JAGANN	MT-COMPO	1U J	50V
C1641	CEXLB1C102WAN	ELECT	1000U M	16V
C1642	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1643	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1644	CEXLB1C102WAN	ELECT	1000U M	16V
C1651	CEXLB1C101WAN	ELECT	100U M	16V
C1652	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1653	CEXLB1E4R7WAN	ELECT	4.7U M	25V
C1654	CEXLB1H101WAN	ELECT	100U M	50V
C1655	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1656	CK1H102KLZBNG	CERAMIC	1000P K	50V
C1657	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1661	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1662	CK1H103ZLZFN	CERAMIC	0.01U Z	50V
C1663	CK1H102KLZBNG	CERAMIC	1000P K	50V
C1664	CK1H103ZLZFN	CERAMIC	0.01U Z	50V
C1665	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1666	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1681	CEXLB1C102WAN	ELECT	1000U M	16V
C1682	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1684	CEXLB1A102WAN	ELECT	1000U M	10V
C1685	CH1H105JAGANN	MT-COMPO	1U J	50V
C1691	CEXLB1V102WAN	ELECT	1000U M	35V
C1694	CEXLB1V471WAN	ELECT	470U M	35V
C1695	CH1H105JAGANN	MT-COMPO	1U J	50V
C1696	CEXLB1C100WAN	ELECT	10U M	16V
C1697	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1801	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1851	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1852	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1853	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1854	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C1855	CK1H104ZLZFN	CERAMIC	0.1U Z	50V
C3401	CPXLB1H4R7ZAN	NP-ELECT	4.7U M	50V

Schematic Location	Part No.	Description
C3402	CEXLB1HR10WAN	ELECT 0.1U M 50V
C3403	CPXLB1H4R7ZAN	NP-ELECT 4.7U M 50V
C3404	CK1H562KLZBNG	CERAMIC 5600P K 50V
C3405	CK1H123KLZBNG	CERAMIC 0.012U K 50V
C3406	CEXLB1H1ROWAN	ELECT 1U M 50V
C3407	CEXLB1HR47WAN	ELECT 0.47U M 50V
C3408	CEXLB1C470WAN	ELECT 47U M 16V
C3409	CEXLB1E4R7WAN	ELECT 4.7U M 25V
C3410	CK1H104ZLZFN	CERAMIC 0.1U Z 50V
C3411	CPXLB1H4R7ZAN	NP-ELECT 4.7U M 50V
C3412	CEXLB1E4R7WAN	ELECT 4.7U M 25V
C3413	CEXLB1C102WAN	ELECT 1000U M 16V
C3414	CPXLB1H4R7ZAN	NP-ELECT 4.7U M 50V
C3415	CK1H272KLZBNG	CERAMIC 2700P K 50V
C3416	CK1H473KLZBNG	CERAMIC 0.047U K 50V
C3417	CT1A3R3KDRANG	TA-SOLID 3.3U K 10V
C3418	CPXLB1H4R7ZAN	NP-ELECT 4.7U M 50V
C3419	CT1A100KDRANG	TA-SOLID 10U K 10V
C3420	CEXLB1H1ROWAN	ELECT 1U M 50V
C3421	CEXLB1H1ROWAN	ELECT 1U M 50V
C3422	CEXLB1H1ROWAN	ELECT 1U M 50V
C3423	CEXLB1H1ROWAN	ELECT 1U M 50V
C3424	CEXLB1H1ROWAN	ELECT 1U M 50V
C3425	CK1H223KLZBNG	CERAMIC 0.022U K 50V
C3426	CK1H472KLZBNG	CERAMIC 4700P K 50V
C3427	CPXLB1H4R7ZAN	NP-ELECT 4.7U M 50V
C3428	CEXLB1HR10WAN	ELECT 0.1U M 50V
C3429	CK1H472KLZBNG	CERAMIC 4700P K 50V
C3430	CEXLB1C471WAN	ELECT 470U M 16V

DIODES

D002	DDRM11C----	DIODE RM11C
D801	DD1SS355----	DIODE 1SS355 TE-17
D802	DZUDZS6.2B--G	ZENER DIODE UDZS6.2B TE-17
D803	DD1SS355----	DIODE 1SS355 TE-17
D810	DD1SS355----	DIODE 1SS355 TE-17
D811	DD1SS355----	DIODE 1SS355 TE-17
D1601	DDYG812S04R-N	DIODE YG812S04R
D1602	DZUDZS3.0B--G	ZD UDZS3.0B-TE-17
D1603	DD1SS355----	DIODE 1SS355 TE-17
D1611	DDYG812S04R-N	DIODE YG812S04R
D1612	DZUDZS3.6B--G	ZD UDZS-TE-173.6B
D1641	DD1SS355----	DIODE 1SS355 TE-17
D1651	DDRB500V-40-G	DIODE RB500V-40-TE-17
D1652	DD1SS355----	DIODE 1SS355 TE-17
D1673	DD1SS355----	DIODE 1SS355 TE-17
D1681	DDRK46-304--N	DIODE RK46 015-304
D1682	DD1SS355----	DIODE 1SS355 TE-17
D1683	DD1SS355----	DIODE 1SS355 TE-17
D1691	DDYG812S04R-N	DIODE YG812S04R
D1692	DD1SS355----	DIODE 1SS355 TE-17
D1693	DD1SS355----	DIODE 1SS355 TE-17
D3401	DDSB07-03C--P	DIODE SB07-03C-TB

Schematic Location	Part No.	Description
INTEGRATED CIRCUITS		
IC001	QLA42052-E--N	IC LA42052-E
IC801	QXXAAJQ0724--	IC LC87F4164AU-LCD001
IC801	QXXAVC755---M	IC LC8741XXXA
IC802	Q24LC08BT/SNP	IC 24LC08BT/SN
IC803	QMN1381-Q---N	IC MN1381-Q
IC805	QTC7SH08F---P	IC TC7SH08F(TE85L, F)
IC806	QTC7SET08F--P	IC TC7SET08F-TE85L
IC1201	QCD4052BNSR-P	IC CD4052BNSR
	QTC4052BF---P	IC TC4052BF-EL
IC1251	QCD4052BNSR-P	IC CD4052BNSR
	QTC4052BF---P	IC TC4052BF-EL
IC1601	QLA5774-E---N	IC QLA5774-E---M
IC1611	QLA5774-E---N	IC QLA5774-E---M
IC1621	QLA5774-E---N	IC QLA5774-E---M
IC1631	QLA5774-E---N	IC QLA5774-E---M
IC1641	QXXAVB833---N	IC SI-3090FA LF1113
IC1651	QFA7700V----G	IC FA7700V-TE1
IC3401	QCXA2234Q---P	IC CXA2234Q-T6

COILS

L001	1AV4L26B2770G	INDUCTOR, 220 OHM
L003	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L005	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L006	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L007	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L100	1AV4L2FB150MG	INDUCTOR, 15U M
L101	1AV4L2FB150MG	INDUCTOR, 15U M
L102	1AV4L2FB3R3MG	INDUCTOR, 3.3U M
L103	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L104	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L105	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L106	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L107	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L108	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L801	1AV4L26B2770G	INDUCTOR, 220 OHM
L802	1AV4L26B2770G	INDUCTOR, 220 OHM
L803	1AV4L2FB3R3MG	INDUCTOR, 3.3U M
L804	1AV4L2FB3R3MG	INDUCTOR, 3.3U M
L805	1AV4L26B2770G	INDUCTOR, 220 OHM
L806	1AV4L26B2770G	INDUCTOR, 220 OHM
L1001	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1021	1AV4L2FB150MG	INDUCTOR, 15U M
L1101	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1201	1AV4L2FB3R3MG	INDUCTOR, 3.3U M
L1251	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1601	1AV4L26B2770G	INDUCTOR, 220 OHM
L1602	1AV4L26B2770G	INDUCTOR, 220 OHM
L1603	1AV4L2JJ470KN	INDUCTOR, 47U K
L1604	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1605	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1606	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1607	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W

Schematic Location	Part No.	Description
L1608	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1609	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1610	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1611	1AV4L26B2770G	INDUCTOR, 220 OHM
L1612	1AV4L26B2770G	INDUCTOR, 220 OHM
L1613	1AV4L2JJ330MN	INDUCTOR, 33U M
L1621	1AV4L26B2770G	INDUCTOR, 220 OHM
L1624	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1625	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1626	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1627	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1628	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1630	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1631	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1632	1AV4L2JJ470KN	INDUCTOR, 47U K
L1635	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1641	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1642	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1643	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1644	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1651	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1652	1AV4L2PX222JG	INDUCTOR, 2.2M J
L1658	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1659	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1661	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1663	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1664	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1665	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1666	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1667	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1668	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1669	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1670	1AV4L26B2770G	INDUCTOR, 220 OHM
L1671	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1673	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1674	1AV4L26B2770G	INDUCTOR, 220 OHM
L1675	1AV4L26B2770G	INDUCTOR, 220 OHM
L1676	1AV4L26B2770G	INDUCTOR, 220 OHM
L1677	1AV4L26B2770G	INDUCTOR, 220 OHM
L1678	1AV4L26B2770G	INDUCTOR, 220 OHM
L1679	1AV4L26B2770G	INDUCTOR, 220 OHM
L1682	1AV4L26B2770G	INDUCTOR, 220 OHM
L1683	1AV4L2JJ330MN	INDUCTOR, 33U M
L1684	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1685	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1687	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L1801	1AV4L26B2770G	INDUCTOR, 220 OHM
L2803	RGFR000ZTAANL	MT-GLAZE0.000 ZA 1/10W
L3401	1AV4L2FB3R3MG	INDUCTOR, 3.3U M

Schematic Location	Part No.	Description
TRANSISTORS		
Q001	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
Q101	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
Q801	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
Q803	T2SC3928A1S-P	TR 2SC3928A1S
	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
Q804	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	T2SA1037AK-RP	TR 2SA1037AK T146 R
Q805	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R
	T2SA1037K-S-P	TR 2SA1037K-T-96-S
	T2SA1179-M6-P	TR 2SA1179-M6
	T2SA1179-M7-P	TR 2SA1179-M7-TB
Q805	T2SA1179N-M6P	TR 2SA1179N-M6-TB
	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
	T2SC2412K-R-P	TR 2SC2412K-T-96-R
Q805	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
Q805	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S

Schematic Location	Part No.	Description
Q810	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
Q811	T2SC3928A1S-P	TR 2SC3928A1S
	T2SC2411K-Q-P	TR 2SC2411K-T146-Q
Q1021	T2SA1037AK-RP	TR 2SA1037AK T146 R
	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R
	T2SA1037K-S-P	TR 2SA1037K-T-96-S
	T2SA1179-M6-P	TR 2SA1179-M6
	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
Q1022	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
	T2SA1037AK-RP	TR 2SA1037AK T146 R
	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R
	T2SA1037K-S-P	TR 2SA1037K-T-96-S
Q1023	T2SA1179-M6-P	TR 2SA1179-M6
	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
	T2SA1037AK-RP	TR 2SA1037AK T146 R
Q1061	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R
	T2SA1037K-S-P	TR 2SA1037K-T-96-S
	T2SA1179-M6-P	TR 2SA1179-M6
	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
	T2SA1179N-M7P	TR 2SA1179N-M7-TB
Q1062	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
	T2SA1037AK-RP	TR 2SA1037AK T146 R
	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R
	T2SA1037K-S-P	TR 2SA1037K-T-96-S
	T2SA1179-M6-P	TR 2SA1179-M6

Schematic Location	Part No.	Description
Q1063	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
	T2SA1037AK-RP	TR 2SA1037AK T146 R
	T2SA1037AK-SP	TR 2SA1037AK T146 S
Q1101	T2SA1037K-R-P	TR 2SA1037K-T-96-R
	T2SA1037K-S-P	TR 2SA1037K-T-96-S
	T2SA1179-M6-P	TR 2SA1179-M6
	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
Q1102	T2SA1235A1F-P	TR 2SA1235A1F
	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
Q1201	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
Q1202	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
Q1251	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
	T2SC2412K-R-P	TR 2SC2412K-T-96-R

Schematic Location	Part No.	Description
Q1251 (Cont)	T2SC3928A1S-P	TR 2SC3928A1S
Q1252	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q1621	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q1651	T5HN01C-----P	TR 5HN01C-TL
Q1672	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q1673	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q1690	T2SA1037AK-RP	TR 2SA1037AK T146 R
	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R
	T2SA1037K-S-P	TR 2SA1037K-T-96-S
	T2SA1179-M6-P	TR 2SA1179-M6
	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
Q1691	T2SC2411K-Q-P	TR 2SC2411K-T146-Q
Q3403	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S

Schematic Location	Part No.	Description
Q3404	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q3405	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S

RESISTORS

R001	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R002	RGF3300JTCANL	MT-GLAZE	330 JA	1/10W
R003	RGF8201JTCANL	MT-GLAZE	8.2K JA	1/10W
R004	RGF3301JTCANL	MT-GLAZE	3.3K JA	1/10W
R005	RGF8201JTCANL	MT-GLAZE	8.2K JA	1/10W
R006	RGF3301JTCANL	MT-GLAZE	3.3K JA	1/10W
★ R007	RWXAA5270JKAN	WIRE WOUND	27 JA	5W
★ R008	RWXAA5270JKAN	WIRE WOUND	27 JA	5W
R009	RGF1502JTCANL	MT-GLAZE	15K JA	1/10W
R014	RGF1001JTCANL	MT-GLAZE	1K JA	1/10W
R101	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R102	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R103	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R104	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R105	RGF56R0JTCANL	MT-GLAZE	56 JA	1/10W
R109	RGF4700JTCANL	MT-GLAZE	470 JA	1/10W
R110	RGF47R0JTCANL	MT-GLAZE	47 JA	1/10W
R802	RGF4701JTCANL	MT-GLAZE	4.7K JA	1/10W
R804	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
R807	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R809	RGF4701JTCANL	MT-GLAZE	4.7K JA	1/10W
R811	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
R812	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R814	RGF1001JTCANL	MT-GLAZE	1K JA	1/10W
R815	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R816	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R817	RGF1004JTCANL	MT-GLAZE	1M JA	1/10W
R818	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R821	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
R822	RGF4701JTCANL	MT-GLAZE	4.7K JA	1/10W
R823	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R824	RGF1000JTCANL	MT-GLAZE	100 JA	1/10W
R828	RGF4701JTCANL	MT-GLAZE	4.7K JA	1/10W
R829	RGF4701JTCANL	MT-GLAZE	4.7K JA	1/10W
R830	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W

Schematic Location	Part No.	Description
R831	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R832	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R833	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R834	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R838	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R839	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R840	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R841	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R842	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R843	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R844	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R846	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R847	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R848	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R849	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R850	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R851	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R853	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R854	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R855	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R856	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R857	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R858	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R859	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R860	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R861	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R862	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R863	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R864	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R865	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R866	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R867	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R868	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R870	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R873	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R874	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R875	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R876	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R883	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R884	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R885	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R887	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R888	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R889	RGF1004JTCANL	MT-GLAZE 1M JA 1/10W
R890	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R891	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R895	RGF4703JTCANL	MT-GLAZE 470K JA 1/10W
R897	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R899	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1001	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1002	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1003	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1004	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1005	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W

Schematic Location	Part No.	Description
R1006	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1007	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1008	RGF2200JTCANL	MT-GLAZE 220 JA 1/10W
R1009	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1010	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1011	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1012	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1013	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1014	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1015	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1021	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1022	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1023	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1024	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1025	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1027	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1028	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1029	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1030	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1031	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1032	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1033	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1034	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1035	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1036	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1037	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1038	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1039	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1040	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1041	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1042	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1043	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1045	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1046	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1047	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1048	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1061	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1062	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1063	RGF75R0JTCANL	MT-GLAZE 75 JA 1/10W
R1064	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1065	RGF3303JTCANL	MT-GLAZE 330K JA 1/10W
R1067	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1068	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1069	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1070	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1071	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1072	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1073	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1074	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1075	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1076	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1077	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1078	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1079	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W

Schematic Location	Part No.	Description
R1080	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1081	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1082	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1083	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1084	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1085	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1086	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1087	RGF2203JTCANL	MT-GLAZE 220K JA 1/10W
R1101	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1102	RGF5600JTCANL	MT-GLAZE 560 JA 1/10W
R1103	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R1104	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R1105	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1106	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1201	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1202	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1203	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1204	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1205	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1206	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1253	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1254	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1255	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1256	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1257	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1260	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1601	RGF1001FTCANL	MT-GLAZE 1K FA 1/10W
R1602	RGF8200JTCANL	MT-GLAZE 820 JA 1/10W
R1603	RGF1001FTCANL	MT-GLAZE 1K FA 1/10W
R1626	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1631	RGF2701FTCANL	MT-GLAZE 2.7K FA 1/10W
R1632	RGF3900JTCANL	MT-GLAZE 390 JA 1/10W
R1651	RGF5603JTCANL	MT-GLAZE 560K JA 1/10W
R1652	RGF1802JTCANL	MT-GLAZE 18K JA 1/10W
R1653	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R1654	RGF3301JTCANL	MT-GLAZE 3.3K JA 1/10W
R1655	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R1656	RGF1201FTCANL	MT-GLAZE 1.2K FA 1/10W
R1657	RGF3902FTCANL	MT-GLAZE 39K FA 1/10W
R1658	RGF4702JTCANL	MT-GLAZE 47K JA 1/10W
R1659	RGF1202JTCANL	MT-GLAZE 12K JA 1/10W
R1662	RGF8200JTCANL	MT-GLAZE 820 JA 1/10W
R1671	RGF6800FTCANL	MT-GLAZE 680 FA 1/10W
R1672	RGF3900JTCANL	MT-GLAZE 390 JA 1/10W
R1673	RGF1801FTCANL	MT-GLAZE 1.8K FA 1/10W
R1675	RGF2701FTCANL	MT-GLAZE 2.7K FA 1/10W
R1676	RGF2700JTCANL	MT-GLAZE 270 JA 1/10W
R1677	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1678	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
★ R1680	RG122R0JTEANL	MT-GLAZE 22 JA 1W
R1682	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R1683	RGF1001FTCANL	MT-GLAZE 1K FA 1/10W
R1685	RGF3302JTCANL	MT-GLAZE 33K JA 1/10W
R1687	RGF3302JTCANL	MT-GLAZE 33K JA 1/10W

Schematic Location	Part No.	Description
R1688	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R1690	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R1692	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1693	RGF1001FTCANL	MT-GLAZE 1K FA 1/10W
R1801	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R1802	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1803	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1804	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1805	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1806	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1807	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1808	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R1810	RGF2202JTCANL	MT-GLAZE 22K JA 1/10W
R1811	RGF1002JTCANL	MT-GLAZE 10K JA 1/10W
R1812	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R1813	RGF3300JTCANL	MT-GLAZE 330 JA 1/10W
R1814	RGF3300JTCANL	MT-GLAZE 330 JA 1/10W
R1815	RGF3300JTCANL	MT-GLAZE 330 JA 1/10W
R3401	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R3402	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R3403	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R3404	RGF1000JTCANL	MT-GLAZE 100 JA 1/10W
R3405	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R3406	RGF1004JTCANL	MT-GLAZE 1M JA 1/10W
R3407	RGF1003JTCANL	MT-GLAZE 100K JA 1/10W
R3414	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R3415	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R3416	RGF1501JTCANL	MT-GLAZE 1.5K JA 1/10W
R3417	RGF1801JTCANL	MT-GLAZE 1.8K JA 1/10W
R3418	RGF4701JTCANL	MT-GLAZE 4.7K JA 1/10W
R3419	RGF6802FTCANL	MT-GLAZE 68K FA 1/10W
R3420	RGF3301JTCANL	MT-GLAZE 3.3K JA 1/10W
R3421	RGF3001JTCANL	MT-GLAZE 3K JA 1/10W
R3422	RGF3901JTCANL	MT-GLAZE 3.9K JA 1/10W
R3425	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R3426	RGF47R0JTCANL	MT-GLAZE 47 JA 1/10W
R3427	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R3428	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W
R3431	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
R3432	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W

SURGE-ABSORBERS

SC1001	1AV4Z30B0220G	SURGE-ABSORBER
SC1002	1AV4Z30B0220G	SURGE-ABSORBER
SC1003	1AV4Z30B0220G	SURGE-ABSORBER
SC1004	1AV4Z30B0220G	SURGE-ABSORBER
SC1005	1AV4Z30B0220G	SURGE-ABSORBER
SC1006	1AV4Z30B0220G	SURGE-ABSORBER
SC1021	1AV4Z30B0220G	SURGE-ABSORBER
SC1022	1AV4Z30B0220G	SURGE-ABSORBER
SC1023	1AV4Z30B0220G	SURGE-ABSORBER
SC1024	1AV4Z30B0220G	SURGE-ABSORBER
SC1025	1AV4Z30B0220G	SURGE-ABSORBER
SC1061	1AV4Z30B0220G	SURGE-ABSORBER

Schematic Location	Part No.	Description
SC1062	1AV4Z30B0220G	SURGE-ABSORBER
SC1063	1AV4Z30B0220G	SURGE-ABSORBER
SC1064	1AV4Z30B0220G	SURGE-ABSORBER
SC1065	1AV4Z30B0220G	SURGE-ABSORBER
SC1101	1AV4Z30B0220G	SURGE-ABSORBER
SC1102	1AV4Z30B0220G	SURGE-ABSORBER
SC1801	1AV4Z30B0220G	SURGE-ABSORBER
SC1802	1AV4Z30B0220G	SURGE-ABSORBER
SC1803	1AV4Z30B0220G	SURGE-ABSORBER
SC1804	1AV4Z30B0220G	SURGE-ABSORBER
SC1805	1AV4Z30B0220G	SURGE-ABSORBER
SC1806	1AV4Z30B0220G	SURGE-ABSORBER
SC1807	1AV4Z30B0220G	SURGE-ABSORBER

MISCELLANEOUS

★ A101	1AV4F1FAM0170	TUNER, TU/IF
A800	1AA0B10N17400	ASSY, PWB, MAIN N3HE
K1001	1AV4J31B07700	TERMINAL, BOARD
K1021	1AV4J12B3960N	JACK, RCA-5(6-1)
K1061	1AV4J12B3960N	JACK, RCA-5(6-1)
K1101	1AV4J12B3970N	JACK, RCA-2
	1LB4J12B08100	JACK, RCA-2
X801	1AV4V10B0560N	OSC, CRYSTAL 32.768KHZ
	1AV4V10B0570N	OSC, CRYSTAL 32.768KHZ

POWER PC BOARD

CAPACITORS

★ C605	CK3A102KANHNN	CERAMIC	1000P K	1K
★ C608	CGXAV27474DAN	MT-POLYEST	0.47U M	275V
	CGXAV27474DDN	MT-POLYEST	0.47U M	275V
★ C613	CGXAV27104DBN	MT-POLYEST	0.1U M	275V
★ C614	CK3A102KANHNN	CERAMIC	1000P K	1K
★ C616	CK3A102KANHNN	CERAMIC	1000P K	1K
★ C619	CKXAV2E102ABW	CERAMIC	1000P M	250V
	CKXAV2E102BBW	CERAMIC	1000P M	250V
	C625	CK1E105KGNBNG	CERAMIC	1U K 25V
	C628	CK1E105KGNBNG	CERAMIC	1U K 25V
★ C629	CGXAV27474DAN	MT-POLYEST	0.47U M	275V
	CGXAV27474DDN	MT-POLYEST	0.47U M	275V
★ C637	CKXAV2E102ABW	CERAMIC	1000P M	250V
	CKXAV2E102BBW	CERAMIC	1000P M	250V
★ C638	CKXAV2E102ABW	CERAMIC	1000P M	250V
	CKXAV2E102BBW	CERAMIC	1000P M	250V
	C639	CK1H104KLZBNG	CERAMIC	0.1U K 50V
	C640	CK1H563KLZBNG	CERAMIC	0.056U K 50V
★ C641	CK3A102KANHNN	CERAMIC	1000P K	1K
	C642	CK1H331KLZBNG	CERAMIC	330P K 50V
	C643	CK1E105KGNBNG	CERAMIC	1U K 25V
★ C644	CGXAV27104DBN	MT-POLYEST	0.1U M	275V
	C645	CE1V470M4ZANN	ELECT	47U M 35V
	C646	CK1C475KGMNBNG	CERAMIC	4.7U K 16V

Schematic Location	Part No.	Description
★ C647	CEXAV2D821CJN	ELECT 820U M 200V
	CEXAV2D821FDN	ELECT 820U M 200V
	C648	CK1C475KGMNBNG CERAMIC 4.7U K 16V
★ C649	CKXAV2E102ABW	CERAMIC 1000P M 250V
	CKXAV2E102BBW	CERAMIC 1000P M 250V
	C651	CK1E105KGNBNG CERAMIC 1U K 25V
	C652	CK1E224KLZBNG CERAMIC 0.22U K 25V
★ C658	CK3A152KANHNN	CERAMIC 1500P K 1K
	CK3A152KCRDAN	CERAMIC 1500P K 1K
	CK3A152KCTBNN	CERAMIC 1500P K 1K
★ C659	CM2W224KCBACN	MT-POLYPRO 0.22U K 450V
	C662	CK1H103KLZBNG CERAMIC 0.01U K 50V
	C663	CE1E102M2FANN ELECT 1000U M 25V
		CE1E102M6QANN ELECT 1000U M 25V
	C664	CE1V681M2FANN ELECT 680U M 35V
		CE1V681M6QANN ELECT 680U M 35V
	C665	CE1E101M4ZANN ELECT 100U M 25V
	C666	CK1H104KLZBNG CERAMIC 0.1U K 50V
	C668	CE1V681M2FANN ELECT 680U M 35V
		CE1V681M6QANN ELECT 680U M 35V
	C671	CE1E102M2FANN ELECT 1000U M 25V
		CE1E102M6QANN ELECT 1000U M 25V
	C676	CE1V471M2FANN ELECT 470U M 35V
		CE1V471M6QANN ELECT 470U M 35V
★ C690	CEXAV2D821CJN	ELECT 820U M 200V
	CEXAV2D821FDN	ELECT 820U M 200V
	C696	CK1H563KLZBNG CERAMIC 0.056U K 50V
★ C1620	CK3D222KANHNN	CERAMIC 2200P K 2K
	CK3D222KCRDNN	CERAMIC 2200P K 1K
	CK3D222KCTBNN	CERAMIC 2200P K 2K
	C1621	CK1H102KLZBNG CERAMIC 1000P K 50V
	C1622	CK1H332KLZBNG CERAMIC 3300P K 50V
★ C1623	CEXAV2D471CHN	ELECT 470U M 200V
	CEXAV2D471ERN	ELECT 470U M 200V
	C1624	CC1H101JLZCNG CERAMIC 100P J 50V
	C1625	CK1H104KLZBNG CERAMIC 0.1U K 50V
	C1626	CE1V101M4ZANN ELECT 100U M 35V
★ C1627	CK3D221KANHNN	CERAMIC 220P K 2K
	CK3D221KCRDNN	CERAMIC 220P K 2K
	CK3D221KCTBNN	CERAMIC 220P K 2K
★ C1630	CK3A102KANHNN	CERAMIC 1000P K 1K
	CK3A102KCRDNN	CERAMIC 1000P K 1K
	CK3A102KCTBNN	CERAMIC 1000P K 1K
	C1631	CE1C222MMYANN ELECT 2200U M 16V
		CE1C222M6RANN ELECT 2200U M 16V
	C1632	CE1C222MMYANN ELECT 2200U M 16V
		CE1C222M6RANN ELECT 2200U M 16V
★ C1634	CK3A102KANHNN	CERAMIC 1000P K 1K
	CK3A102KCRDNN	CERAMIC 1000P K 1K
	CK3A102KCTBNN	CERAMIC 1000P K 1K
	C1635	CE1C222MMYANN ELECT 2200U M 16V
		CE1C222M6RANN ELECT 2200U M 16V
	C1636	CK0J106KGMNBNG CERAMIC 10U K 6.3V
	C1637	CK1H104KLZBNG CERAMIC 0.1U K 50V

Schematic Location	Part No.	Description
C1638	CK1C225ZGMFNG	CERAMIC 2.2U Z 16V
C1692	CE1C222MMYANN	ELECT 2200U M 16V
	CE1C222M6RANN	ELECT 2200U M 16V

DIODES

D601	DD1SS355----G	DIODE 1SS355 TE-17
D603	DDXAVB024---N	DIODE D10XB80-7101
★ D604	DCPC123YC2--N	PHOTO COUPLE PC123YC2
★ D605	DCPC123YC2--N	PHOTO COUPLE PC123YC2
★ D606	DCPC123YC2--N	PHOTO COUPLE PC123YC2
D607	DDERC05-10B-N	DIODE ERC05-10B
	DDRM11C-----N	DIODE RM11C
D608	DDERC05-10B-N	DIODE ERC05-10B
	DDRM11C-----N	DIODE RM11C
D624	DDXAVB022---N	DIODE SF15NC15M-7112
	DDYG865C10MYN	DIODE YG865C10R-MY
D627	DDXAVB022---N	DIODE SF15NC15M-7112
	DDYG865C10MYN	DIODE YG865C10R-MY
D639	DZUDZS27B---G	ZD UDZS27B-TE-17
D641	DZUDZS18B---G	ZD UDZS18B-TE-17
D642	DDSFPL-52---P	DIODE SFPL-52V
D643	DD1SS355----G	DIODE 1SS355 TE-17
D644	DD1SS355----G	DIODE 1SS355 TE-17
D645	DD1SS355----G	DIODE 1SS355 TE-17
D646	DZPTZ13B---G	ZENER DIODE PTZ13B-TE25
D647	DD1SS355----G	DIODE 1SS355 TE-17
D670	DD1SS355----G	DIODE 1SS355 TE-17
D1606	DDRM11C-----N	DIODE RM11C
D1607	DDSFPL-52---P	DIODE SFPL-52V
D1608	DD1SS355----G	DIODE 1SS355 TE-17
D1609	DZUDZS10B---G	ZENER DIODE UDZS10B TE-17
D1610	DZUDZS10B---G	ZENER DIODE UDZS10B TE-17
D1613	DDSFPL-52---P	DIODE SFPL-52V
D1615	DDEG01C-----N	DIODE EG01C
D1616	DZUDZS8.2B---G	ZENER DIODE UDZS8.2B TE-17
D1617	DDRM11C-----N	DIODE RM11C
D1618	DDRM11C-----N	DIODE RM11C
D1620	DD1NU41-----N	DIODE 1NU41
★ D1621	DCPC123YC2--N	PHOTO COUPLE PC123YC2
★ D1622	DCPC123YC2--N	PHOTO COUPLE PC123YC2
D1628	DDXAVB023---N	DIODE SF10NC15M-7112
	DDYG862C10MYN	DIODE YG862C10R-MY
D1629	DDXAVB023---N	DIODE SF10NC15M-7112
	DDYG862C10MYN	DIODE YG862C10R-MY
D1630	DD1SS355----G	DIODE 1SS355 TE-17
D1633	RGFR000ZTCANL	MT-GLAZE 0.000 ZA 1/10W

Schematic Location	Part No.	Description
INTEGRATED CIRCUITS		
IC603	QL6598D-----P	IC L6598D
IC671	QUPC1093J---N	IC UPC1093J
IC1602	QMR4010-7101N	IC MR4010-7101
IC1604	QUPC1093J---N	IC UPC1093J

COILS

★ LF641	1AV4F35B1290N	LINE FILTER
★ LF642	1AV4F35B1290N	LINE FILTER
L613	1AV4L2GB4R7MN	INDUCTOR, 4.7U M
L614	1AV4L2GB4R7MN	INDUCTOR, 4.7U M
L617	1LB4Z21B0150N	CORE, PIPE
L619	1LB4Z21B0150N	CORE, PIPE
L620	1LB4Z21B0150N	CORE, PIPE
L621	1LB4Z21B0090N	CORE, PIPE
L1622	1LB4Z21B0090N	CORE, PIPE

TRANSISTORS

Q602	T2SD2226K-V-P	TR 2SD2226K-T146-V
	T2SD2226K-W-P	TR 2SD2226KT146W
Q603	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q604	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q605	T2SA1037AK-RP	TR 2SA1037AK T146 R
	T2SA1037AK-SP	TR 2SA1037AK T146 S
	T2SA1037K-R-P	TR 2SA1037K-T-96-R
	T2SA1037K-S-P	TR 2SA1037K-T-96-S
	T2SA1179-M6-P	TR 2SA1179-M6
	T2SA1179-M7-P	TR 2SA1179-M7-TB
	T2SA1179N-M6P	TR 2SA1179N-M6-TB
	T2SA1179N-M7P	TR 2SA1179N-M7-TB
	T2SA1235A1E-P	TR 2SA1235A1E
	T2SA1235A1F-P	TR 2SA1235A1F
Q606	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB

Schematic Location	Part No.	Description
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q641	T2SK3555-FMYN	TR 2SK3555-01MR-MY
Q642	T2SK3555-FMYN	TR 2SK3555-01MR-MY
Q670	T2SD2226K-V-P	TR 2SD2226K-T146-V
	T2SD2226K-W-P	TR 2SD2226KT146W
Q1609	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S
Q1610	T2SD2226K-V-P	TR 2SD2226K-T146-V
	T2SD2226K-W-P	TR 2SD2226KT146W
Q1611	T2SC2412K-R-P	TR 2SC2412K-T-96-R
	T2SC2412K-S-P	TR 2SC2412K-T-96-S
	T2SC2812-L6-P	TR 2SC2812-L6-TB
	T2SC2812-L7-P	TR 2SC2812-L7-TB
	T2SC2812N-L6P	TR 2SC2812N-L6-TB
	T2SC2812N-L7P	TR 2SC2812N-L7-TB
	T2SC3928A1R-P	TR 2SC3928A1R
	T2SC3928A1S-P	TR 2SC3928A1S

RESISTORS

RT603	RGFR000ZTCANL	MT-GLAZE	0.000 ZA	1/10W
RT604	RGFR000ZTCANL	MT-GLAZE	0.000 ZA	1/10W
R602	RGF2201JTCANL	MT-GLAZE	2.2K JA	1/10W
R604	RDA2203JPCANN	CARBON	220K JA	1/2W
R605	RGF2202JTCANL	MT-GLAZE	22K JA	1/10W
R606	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
R607	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
R608	RGF10R0JTCANL	MT-GLAZE	10 JA	1/10W
★ R609	DHXAVB019---N	THERMISTOR	NTPAD5R1LDNBO	
R620	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
R622	RGF2202JTCANL	MT-GLAZE	22K JA	1/10W
R623	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
★ R624	RS11501JGCANN	OXIDE-MT	1.5K JA	1W
R631	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
R632	RGFR000ZTCANL	MT-GLAZE	0.000 ZA	1/10W
R633	RGF2202JTCANL	MT-GLAZE	22K JA	1/10W
R635	RGF1202JTCANL	MT-GLAZE	12K JA	1/10W
R636	RGF4700JTCANL	MT-GLAZE	470 JA	1/10W
R637	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
R639	RGF1002JTCANL	MT-GLAZE	10K JA	1/10W
R640	RGA8202JTDANL	MT-GLAZE	82K JA	1/2W
R642	RGF1001JTCANL	MT-GLAZE	1K JA	1/10W
R644	RGF2702JTCANL	MT-GLAZE	27K JA	1/10W
R649	RGF1001JTCANL	MT-GLAZE	1K JA	1/10W
R650	RGA1000JTDANL	MT-GLAZE	100 JA	1/2W
R651	RGA47R0JTDANL	MT-GLAZE	47 JA	1/2W

Schematic Location	Part No.	Description
	R652	RGA56R0JTDANL
★ R653	RG11202JTEANL	MT-GLAZE
R654	RGF2200JTCANL	MT-GLAZE
R655	RGF1003JTCANL	MT-GLAZE
R657	RGA3300JTDANL	MT-GLAZE
R658	RGA4701JTDANL	MT-GLAZE
R659	RGA10R0JTDANL	MT-GLAZE
R661	RGF1002JTCANL	MT-GLAZE
R662	RGF1003JTCANL	MT-GLAZE
R663	RGA3300JTDANL	MT-GLAZE
R664	RGA10R0JTDANL	MT-GLAZE
★ R665	RS21002JGDANN	OXIDE-MT
★ R666	RS21002JGDANN	OXIDE-MT
R667	RGF1002JTCANL	MT-GLAZE
R668	RGF3901FTCANL	MT-GLAZE
R669	RGF3901FTCANL	MT-GLAZE
R670	RGF8200FTCANL	MT-GLAZE
R671	RGF1001FTCANL	MT-GLAZE
R672	RGA3301JTDANL	MT-GLAZE
R673	RGF2202JTCANL	MT-GLAZE
R674	RGF1002JTCANL	MT-GLAZE
R675	RGF10R0JTCANL	MT-GLAZE
★ R677	RCXAAA3304MUN	SOLID
	RDXLBA335KWAN	SOLID
	RXXAVA335JAAN	RESISTER
★ R678	FFXAVB005SG-J	FUSE
R679	RDD47R0JPAANN	CARBON
R680	RGF8201JTCANL	MT-GLAZE
R681	RGF8201JTCANL	MT-GLAZE
R682	RGF1003JTCANL	MT-GLAZE
R683	RGF8200JTCANL	MT-GLAZE
R684	RGF2702JTCANL	MT-GLAZE
★ R685	RG15600JTEANL	MT-GLAZE
★ R1606	RS21003JGDANN	OXIDE-MT
★ R1610	RS14700JGCANN	OXIDE-MT
★ R1611	RGF10R0JTCANL	MT-GLAZE
R1612	RGF2202JTCANL	MT-GLAZE
R1613	RGF1002JTCANL	MT-GLAZE
R1614	RGA4700JTDANL	MT-GLAZE
★ R1615	RGF4701JTCANL	MT-GLAZE
R1616	RGF2201JTCANL	MT-GLAZE
R1617	RGF3301FTCANL	MT-GLAZE
R1618	RGF4700FTCANL	MT-GLAZE
R1619	RGF3001FTCANL	MT-GLAZE
R1620	RGF1001JTCANL	MT-GLAZE
R1621	RGF2402FTCANL	MT-GLAZE
R1622	RGF2202JTCANL	MT-GLAZE
R1623	RGF2202JTCANL	MT-GLAZE
R1624	RGF2202JTCANL	MT-GLAZE
R1625	RGF1002JTCANL	MT-GLAZE
R1627	RGE1002JTBANL	MT-GLAZE
R1633	RGA10R0JTDANL	MT-GLAZE
★ R1634	RS2R390JGDANN	OXIDE-MT
R1635	RGE5601JTBANL	MT-GLAZE

Schematic Location	Part No.	Description
R1636	RGE7501JTBANL	MT-GLAZE 7.5K JA 1/8W
R1637	RGE8201JTBANL	MT-GLAZE 8.2K JA 1/8W
★ R1638	RFXAVA471JFNN	FUSIBLE RES 470 J- 1/2W
R1641	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W
★ R1642	RS2R560JGDANN	OXIDE-MT 0.56 JA 2W
R1691	RGA8202JTDANL	MT-GLAZE 82K JA 1/2W
R1696	RGF6801JTCANL	MT-GLAZE 6.8K JA 1/10W

TRANSFORMERS

★ T1606	1LB4L51B0820N	TRANS, POWER, PULSE
★ T605	1AV4L51B6740N	TRANS, POWER, PULSE

MISCELLANEOUS

A601	1AA0B10N1750A	ASSY, PWB, POWER N3HE
★ F601	F32S4R0A2LTTS	FUSE 250V 4A
F601A	1AV4J20B00100	HOLDER, FUSE
	1AV4J20B0120J	HOLDER, FUSE
	1AV4J20B0171J	HOLDER, FUSE
F601B	1AV4J20B00100	HOLDER, FUSE
	1AV4J20B0120J	HOLDER, FUSE
	1AV4J20B0171J	HOLDER, FUSE
★ RL1603	1AV4S20B0460N	RELAY
	1AV4S20B0480N	RELAY
★ RL601	1AV4S20B0460N	RELAY
	1AV4S20B0480N	RELAY
★ RL670	1AV4S20B0820N	RELAY
	1AV4S20B0821N	RELAY
★ SC611	1AV4Z30B0170N	SURGE-ABSORBER
★ VA611	DVXAAEV0043--	VARISTOR ENC471D-14AS
★ VA612	DVXAAEV0043--	VARISTOR ENC471D-14AS
★ W601	1AV4W10B09406	CORD, POWER-2.0MK-A5003

CONTROL PC BOARD

CAPACITORS

C1902	CEXLB1C100WAN	ELECT	10U M	16V
C1904	CK1E104ZLZFNG	CERAMIC	0.1U Z	25V
C1905	CK1H102KLZBNG	CERAMIC	1000P K	50V

COILS

L1901	1AV4L2B95R6KN	INDUCTOR, 5.6U K
	1AV4L2GU5R6KN	INDUCTOR, 5.6U K

RESISTORS

R1901	RGF1001JTCANL	MT-GLAZE	1K JA 1/10W
R1902	RGF1001JTCANL	MT-GLAZE	1K JA 1/10W
R1903	RGF1002JTCANL	MT-GLAZE	10K JA 1/10W
R1904	RGF1801JTCANL	MT-GLAZE	1.8K JA 1/10W

Schematic Location	Part No.	Description
R1905	RGF2201JTCANL	MT-GLAZE 2.2K JA 1/10W
R1906	RGF3901JTCANL	MT-GLAZE 3.9K JA 1/10W
R1907	RGF5601JTCANL	MT-GLAZE 5.6K JA 1/10W
R1909	RGF2200JTCANL	MT-GLAZE 220 JA 1/10W
R1910	RGF2200JTCANL	MT-GLAZE 220 JA 1/10W
R1911	RGF1001JTCANL	MT-GLAZE 1K JA 1/10W

SWITCHES

SW1901	1AV4S10B0900J	SWITCH, PUSH 1P-1T
	1AV4S10B5650J	SWITCH, PUSH 1P-1TX1
SW1902	1AV4S10B0900J	SWITCH, PUSH 1P-1T
	1AV4S10B5650J	SWITCH, PUSH 1P-1TX1
SW1903	1AV4S10B0900J	SWITCH, PUSH 1P-1T
	1AV4S10B5650J	SWITCH, PUSH 1P-1TX1
SW1904	1AV4S10B0900J	SWITCH, PUSH 1P-1T
	1AV4S10B5650J	SWITCH, PUSH 1P-1TX1
SW1905	1AV4S10B0900J	SWITCH, PUSH 1P-1T
	1AV4S10B5650J	SWITCH, PUSH 1P-1TX1
A1900	1AA0B10N1750B	ASSY, PWB, KEYSW N3HE
A1901	1AV4U20B24401	UNIT, REMOCON RECEIVER

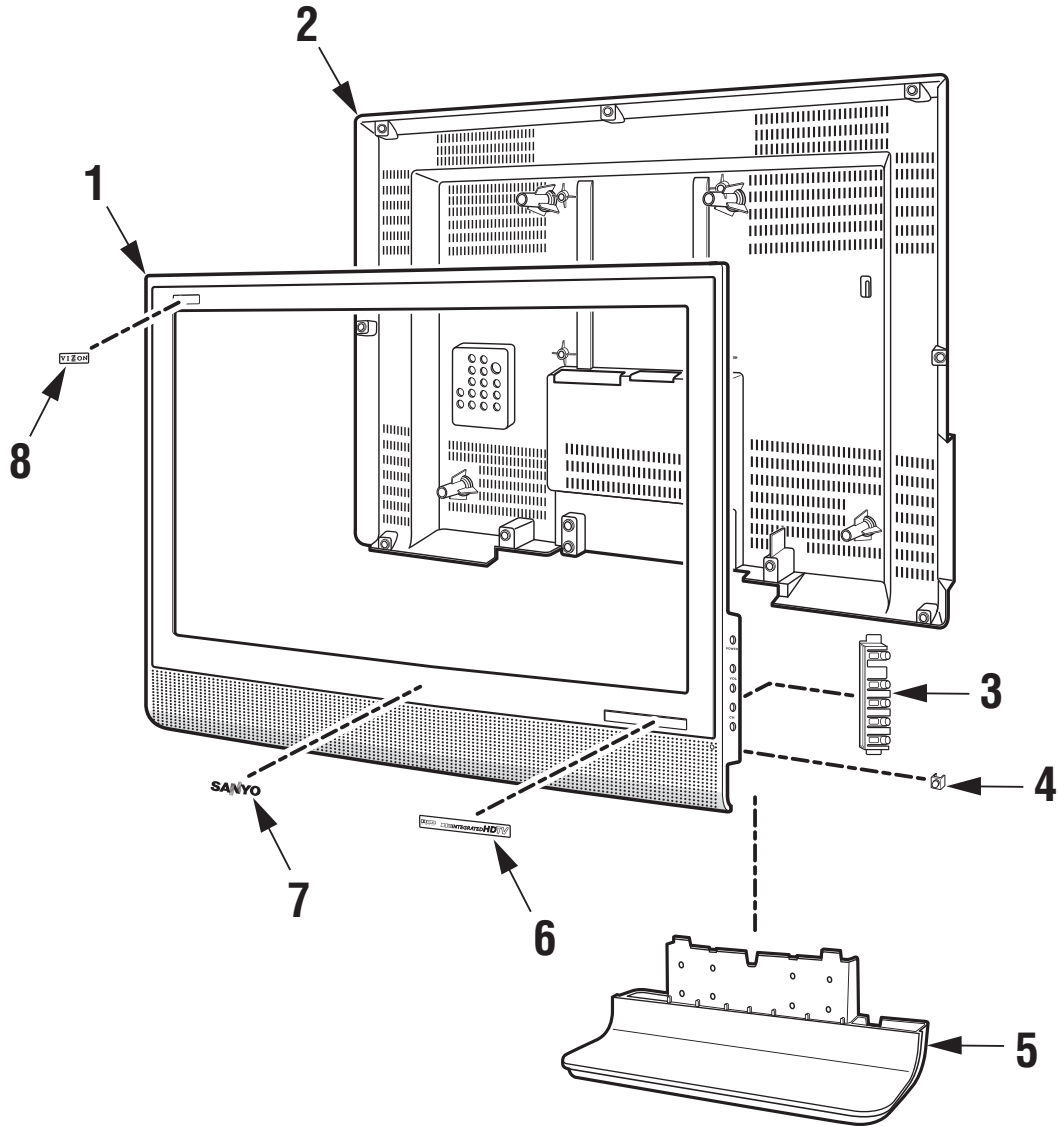
DIGITAL PC BOARD

A5500	1AA0B10N17900	ASSY, PWB, DIGITAL N3HE
Nonservicable part. No discreet parts provided for this pc board.		

MISCELLANEOUS

★ EL901	1AV4T40B75500	LCD (T315XW01 V5)
SP901	1LB4A10B03800	SPEAKER, 8
SP902	1LB4A10B03800	SPEAKER, 8

CABINET PARTS LIST



CABINET PARTS LIST

KEY NO.	PARTS NO.	DESCRIPTION
1	1AA2CAM0538--	CABINET FRONT-N3HE
2	1AA2CBM0392--	CABINET BACK-N3HE
3	1AA2BUM0529--	BUTTON UNITED-N3HE
4	1AA2CPM0005--	CAP RC-G5JFM
5	1AA2MGF0871--	MOUNTING STAND-N3HE
6	1AA2DES0861--	DEC SHEET DTV-H3EPM
7	1AV2BAAS015--	BADGE, SANYO*53.5X12L53.5
OR	1AV2BAAS015A-	BADGE, SANYO*53.5X12L53.5
8	1AA2DES0712-F	DEC SHEET VIZON-N2TE

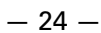
ACCESSORY PARTS LIST

KEY NO.	PARTS NO.	DESCRIPTION
	1AA6P1P5066--	OWNER'S MANUAL (Eng & Span)
	1JC6P1P0232--	OWNER'S MANUAL (French)
	1AV0U10B43101	ASSY, REMOCON
	1AA2RCM0295-A	RC BATTERY LID

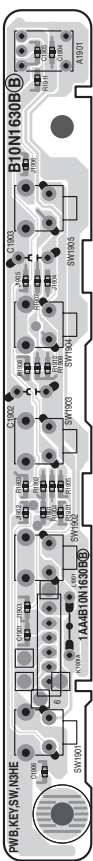
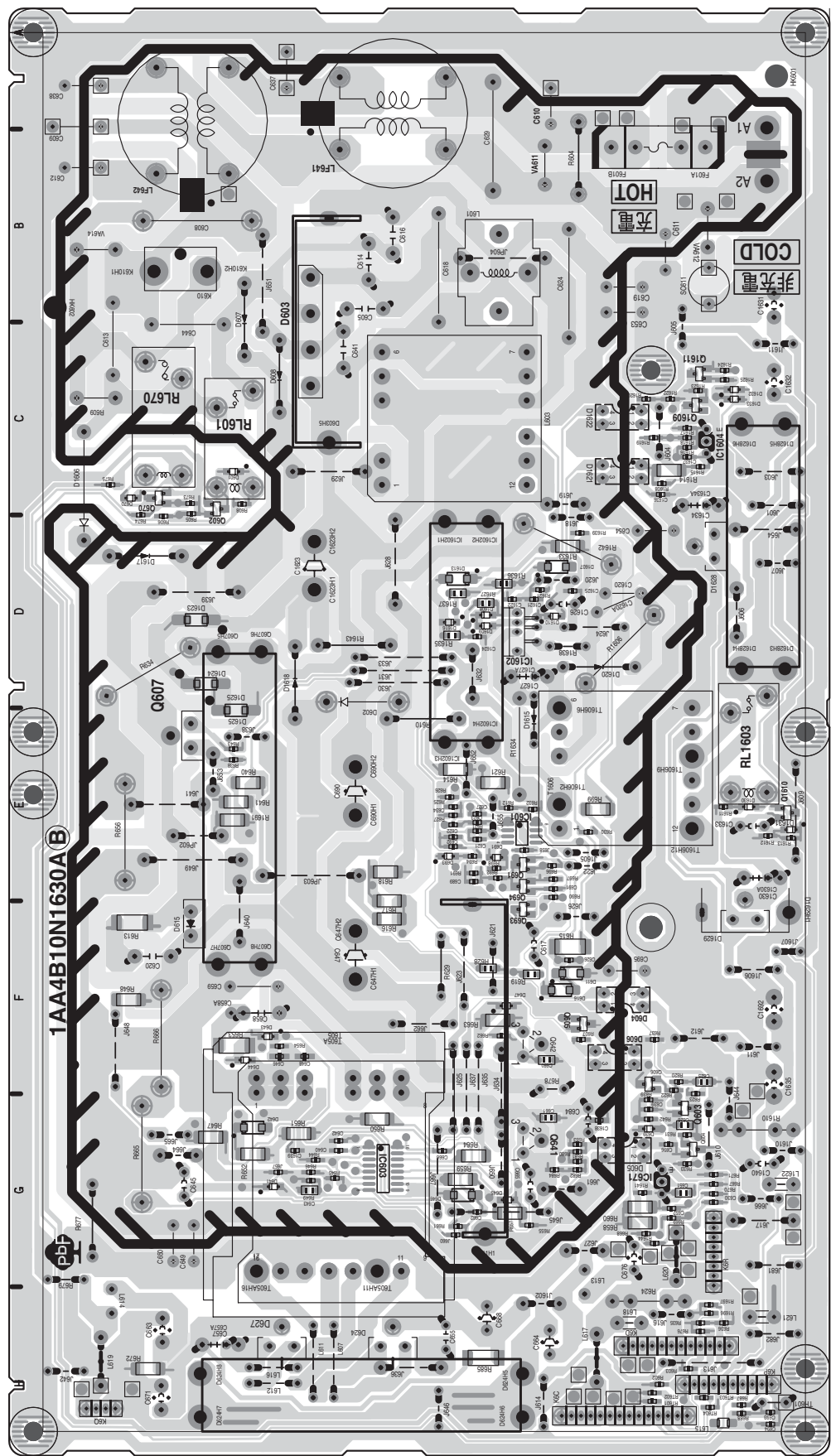
MAIN BOARD PARTS SIDE



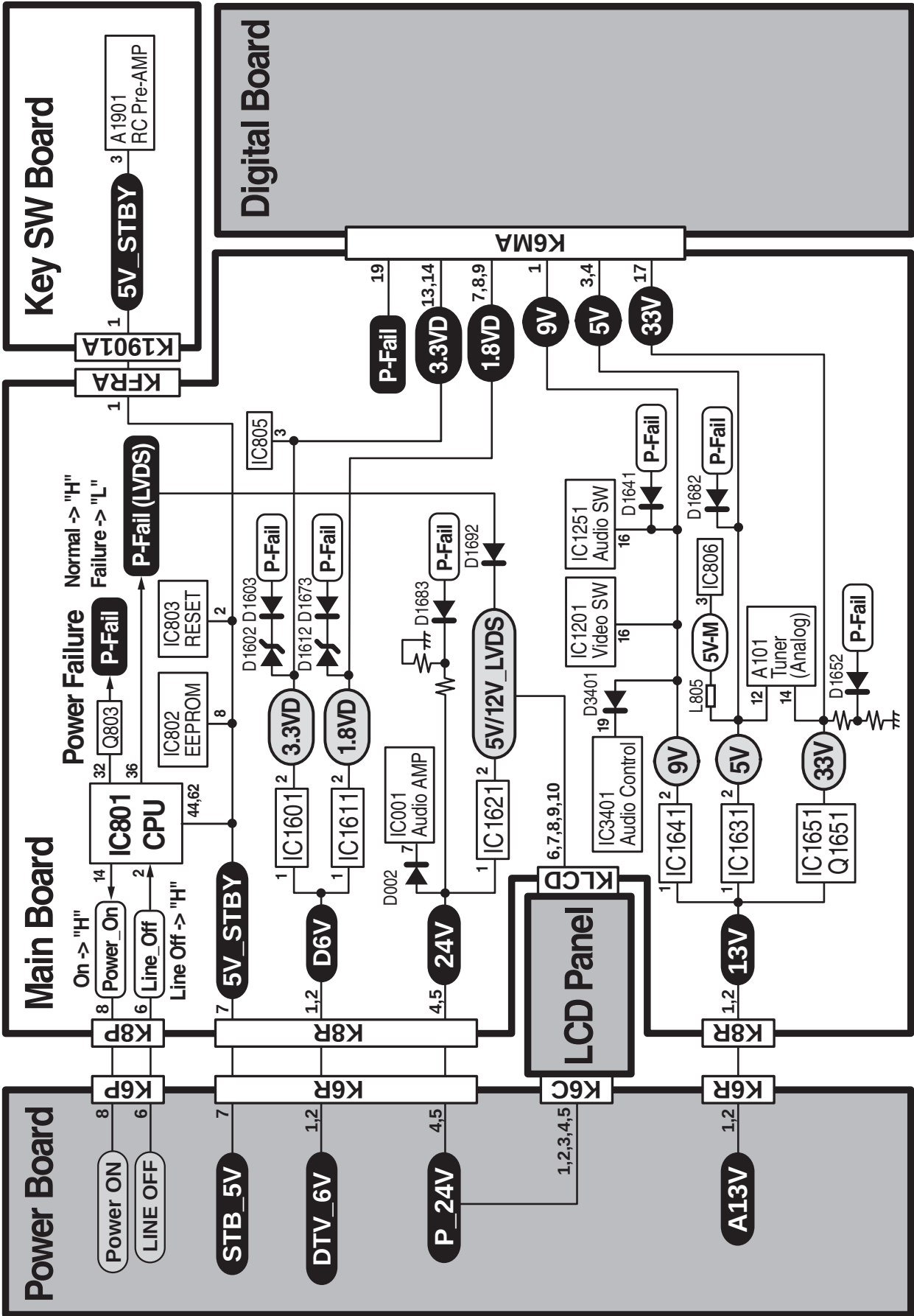
POWER BOARD PARTS SIDE



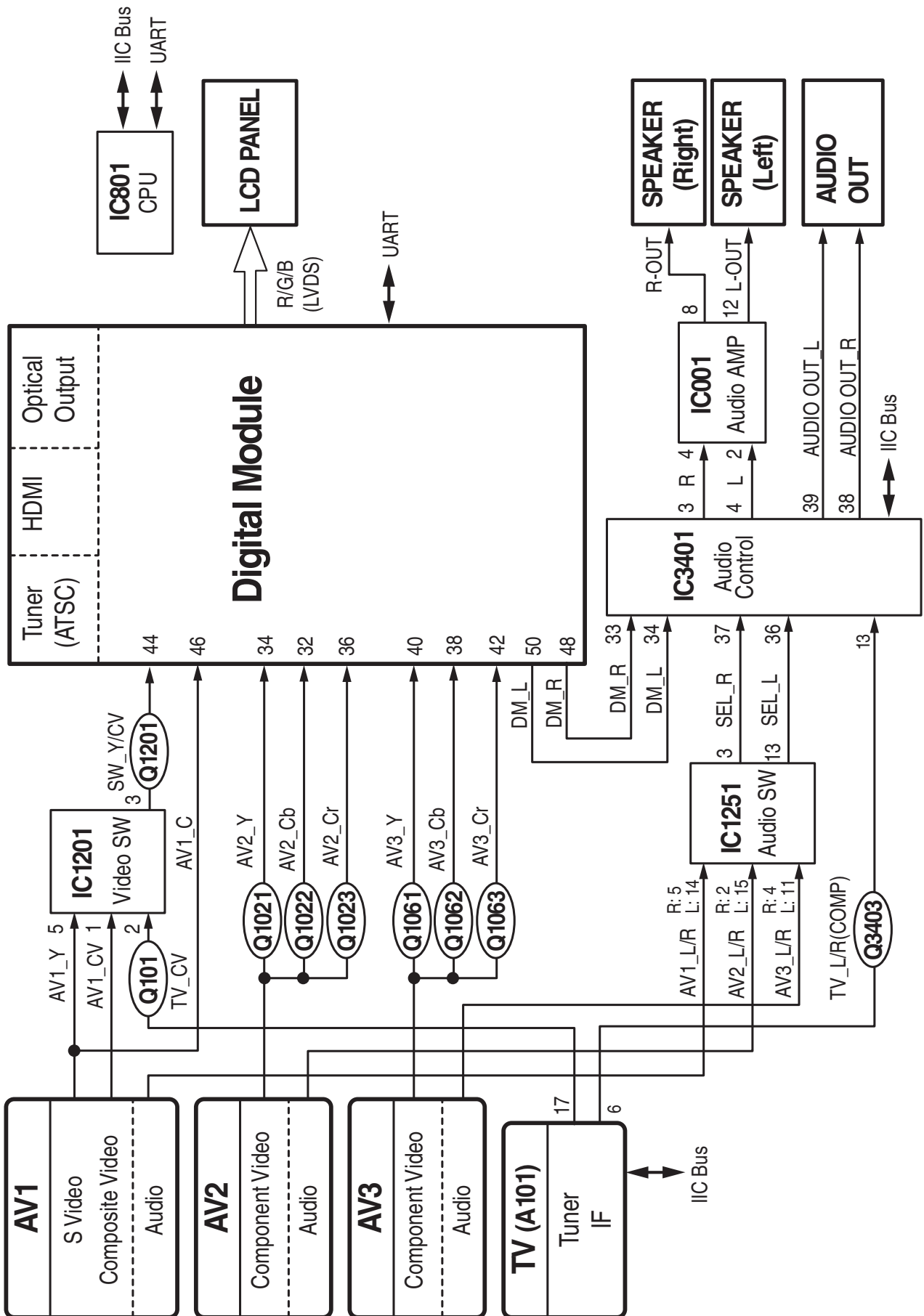
POWER BOARD FOIL SIDE



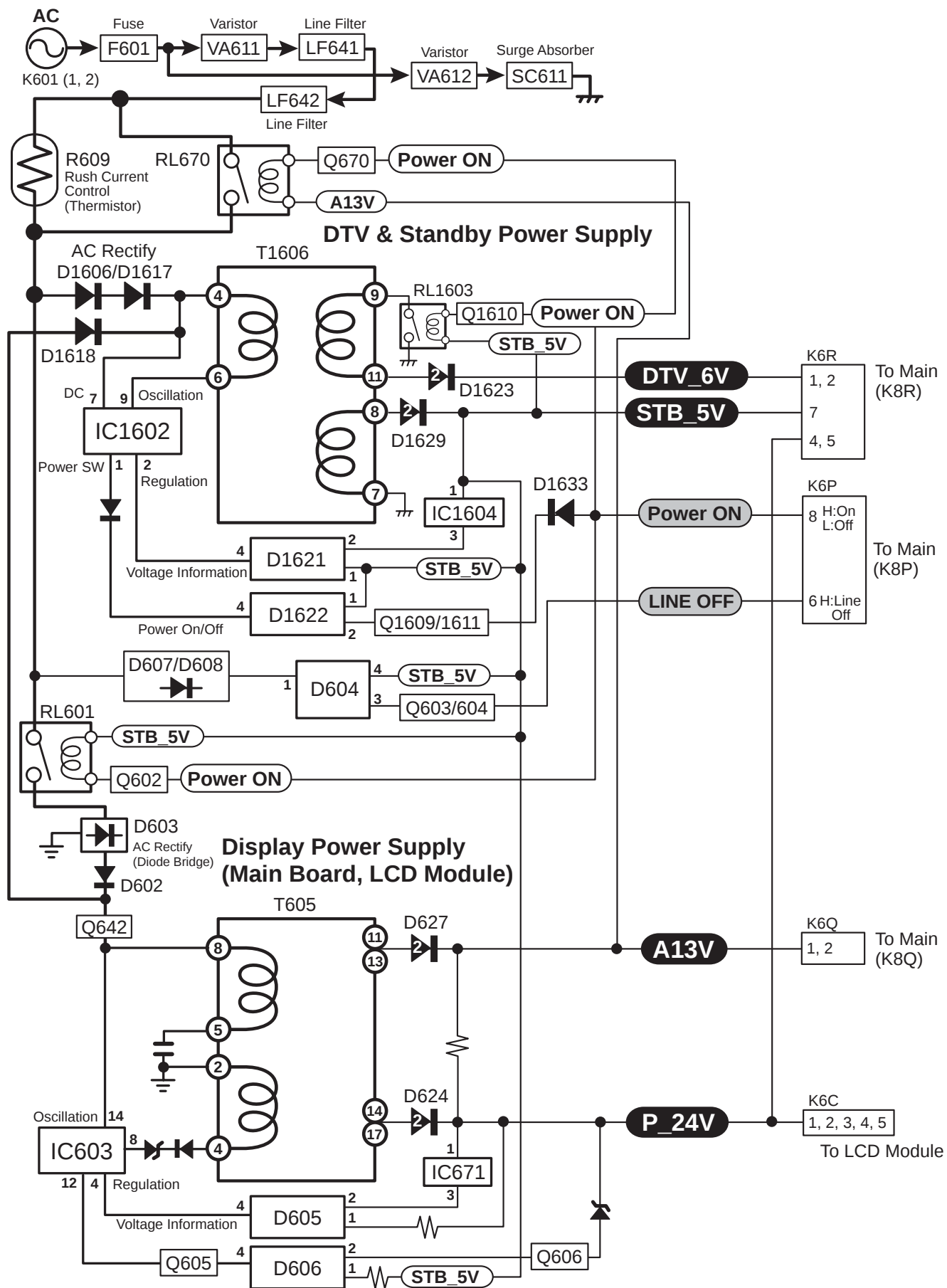
BLOCK DIAGRAM POWER LINES



BLOCK DIAGRAM SIGNAL LINES

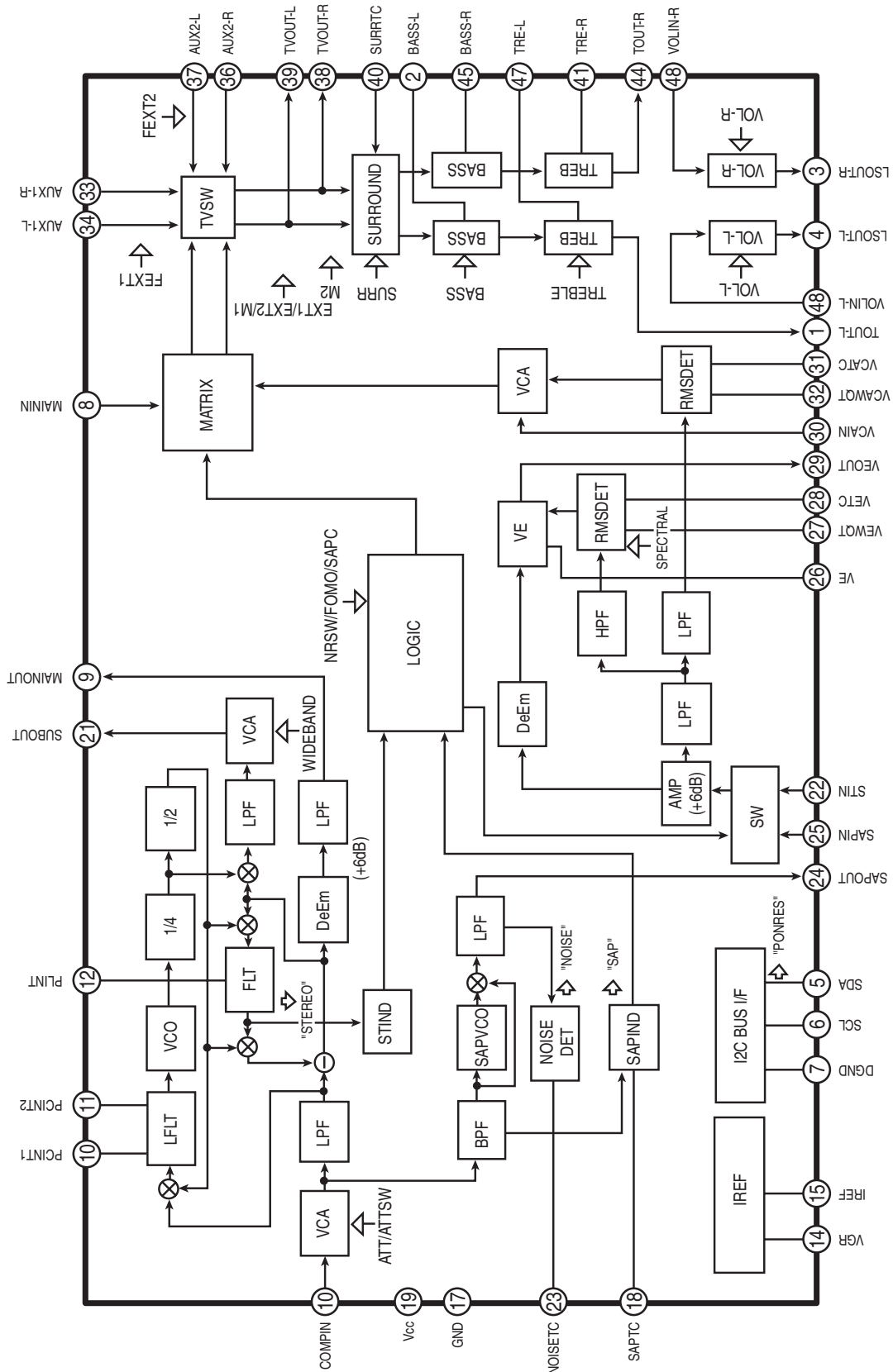


BLOCK DIAGRAM POWER BOARD

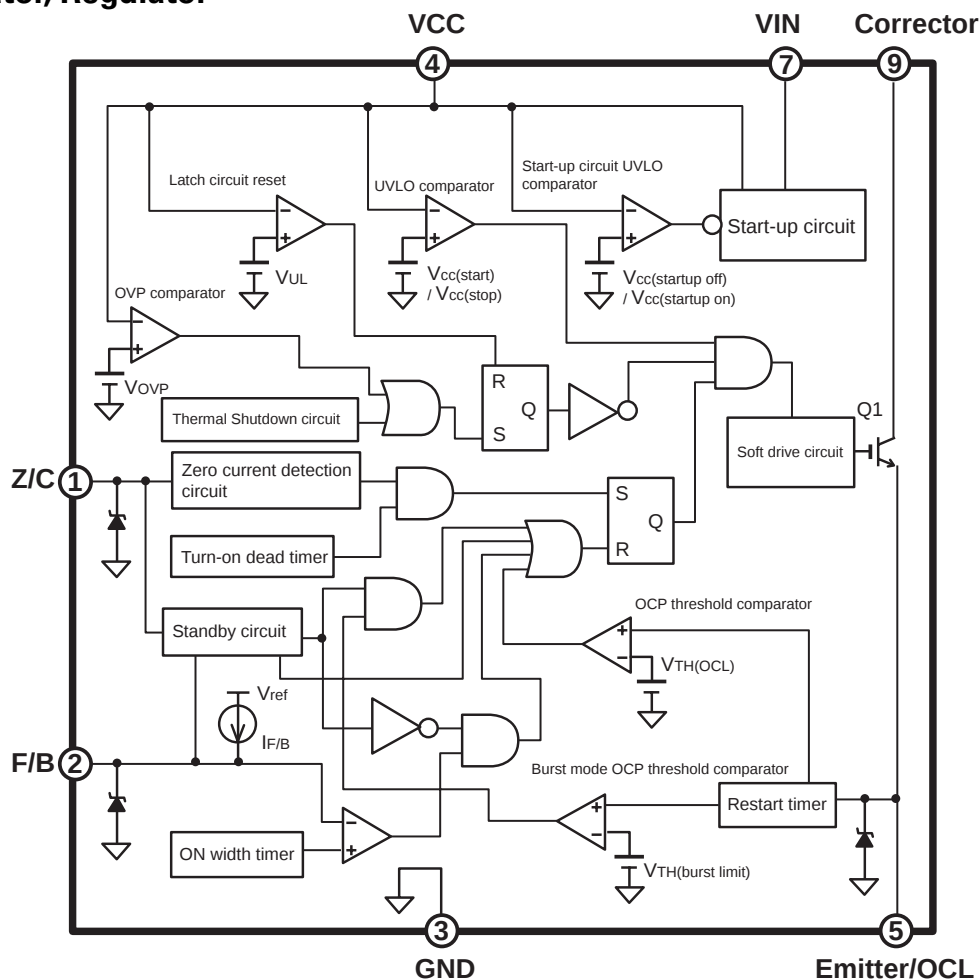


IC BLOCK DIAGRAMS

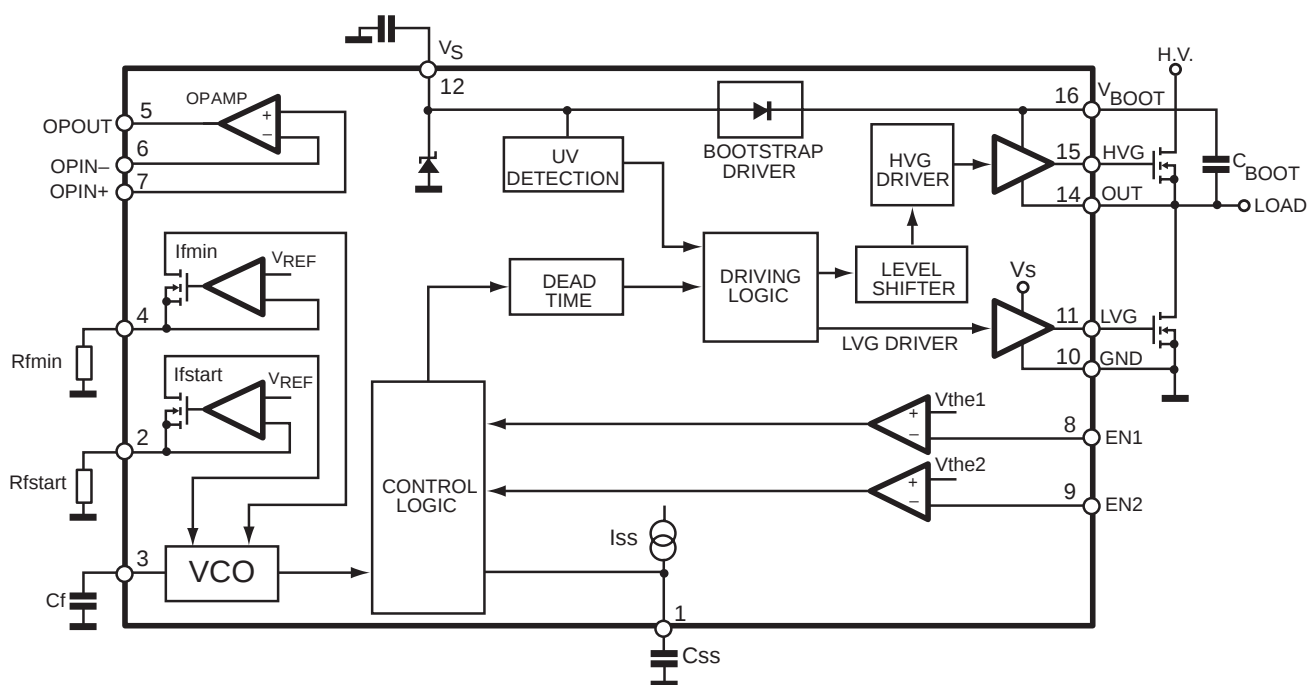
Audio Processor (IC3401)



IC1602 Oscillator, Regulator

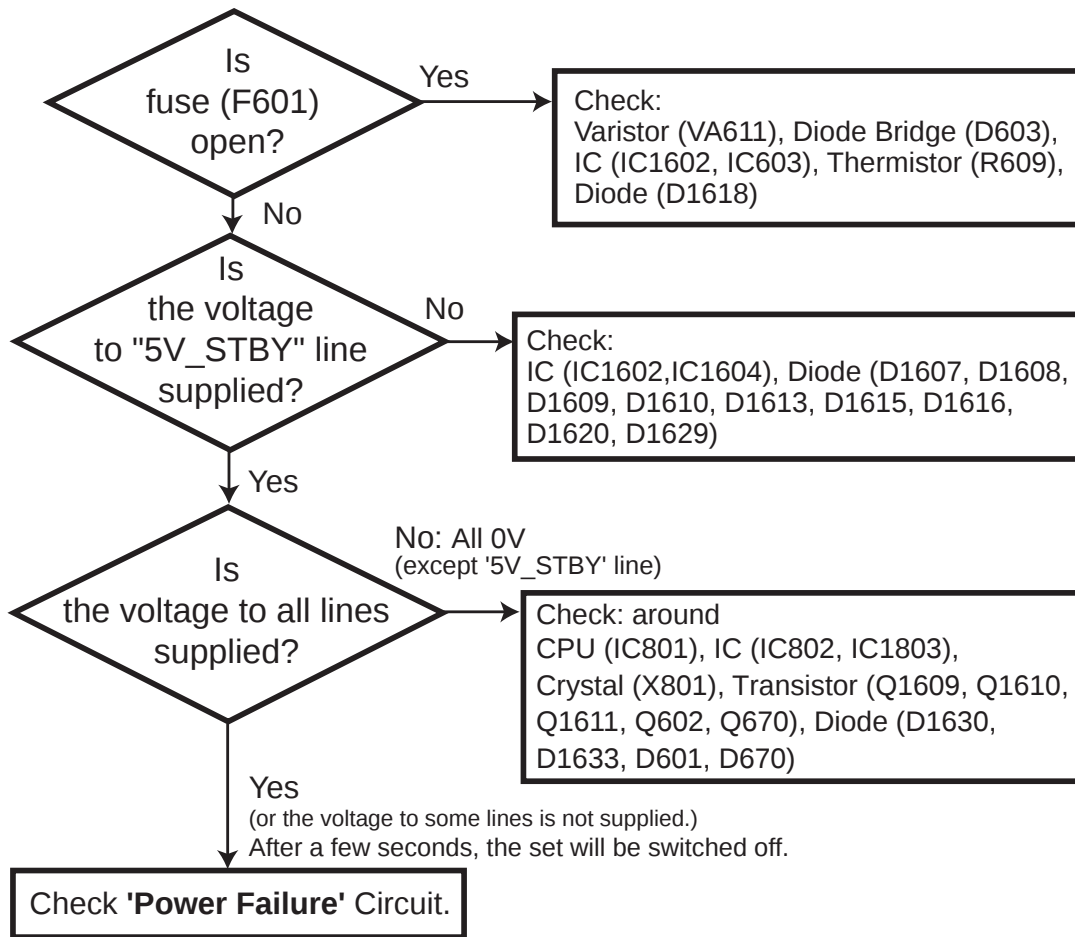


IC1603 Oscillator, Regulator

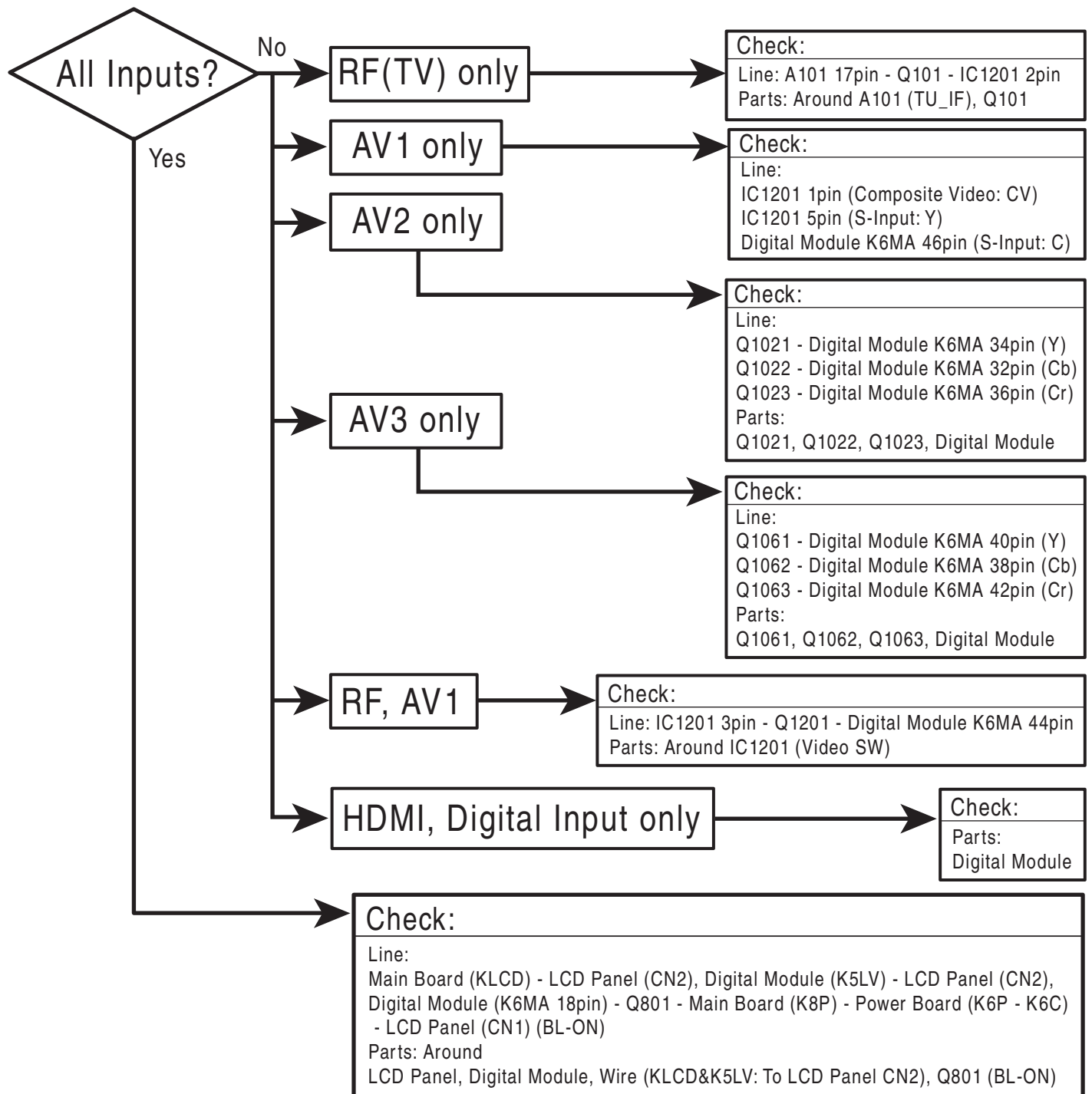


TROUBLESHOOTING FLOW CHARTS

NO POWER

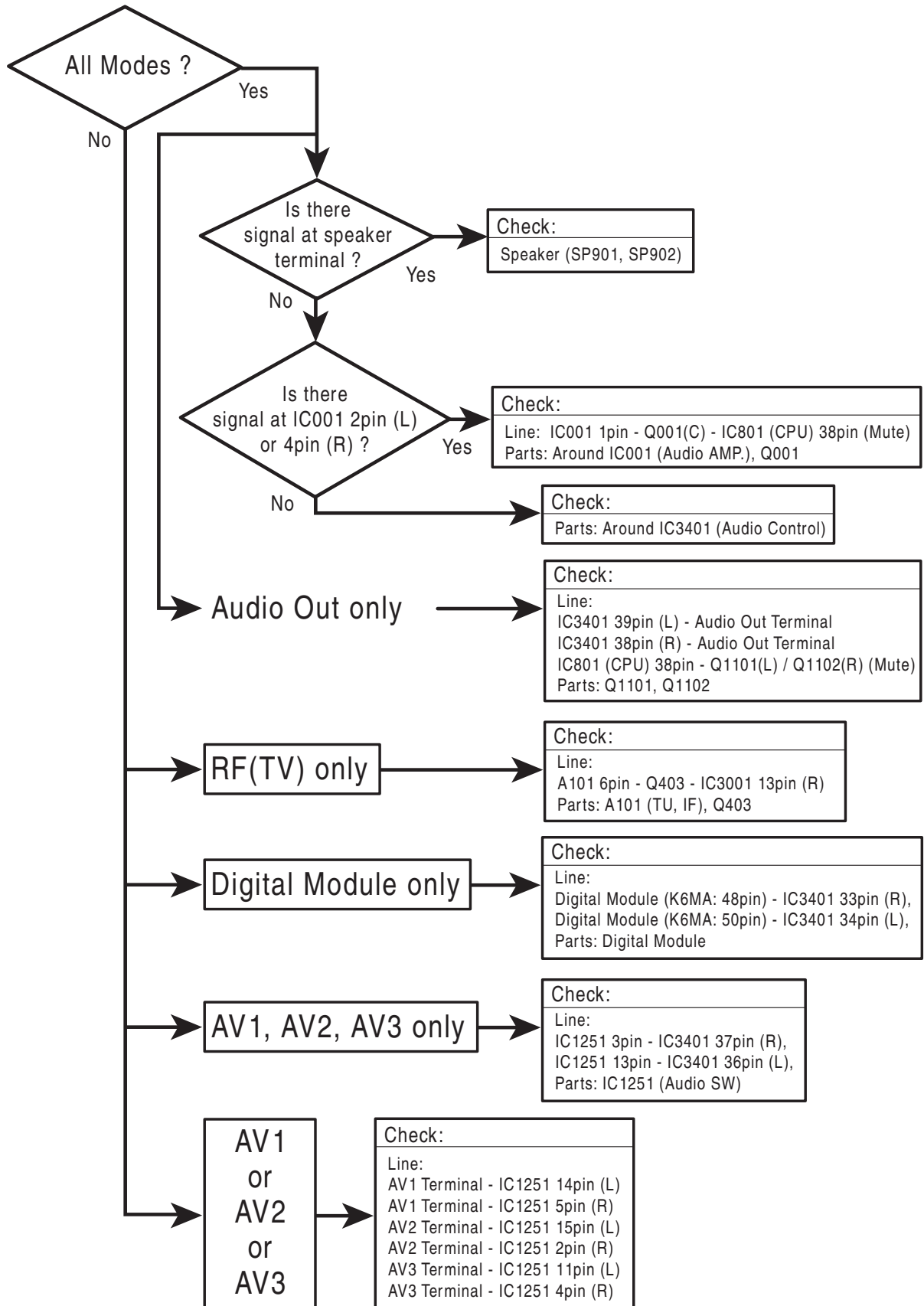


NO VIDEO



TROUBLESHOOTING FLOW CHARTS (CONT.)

NO AUDIO



CONTROL PORT FUNCTIONS

System Control (CPU : IC801)

Pin	Name	Function	I/O	Description
1	CVin	Reserve	IN	GND (0Vdc)
2	P70/INT0/TOLCP	LINE OFF	IN	Detect AC Voltage Reduction (Normal: High)
3	P71/INT1/TOHCP	Reserve	OUT	(Open)
4	P72/INT2/TOIN	Reserve	OUT	(Open)
5	P73/INT3/TOIN	RC in	IN	RC Input
6	AN0	Key in	IN	Key Input
7	AN1	AFT S-Figure in	IN	AFT S-Figure Input
8	P82/AN2	Reserve	OUT	(Open)
9	P83	Reserve	OUT	(Open)
10	P84/AN4	Panel Size Option	IN	32V: High, 26V: Low
11	P85/AN5	Reserve	IN	(Open)
12	P86/AN6	Reserve	IN	(Open)
13	P87/AN7	S IN	IN	S-Detect
14	P30/SO6	TV Relay out	OUT	POWER ON/OFF SW (Power On: High)
15	SB6	IIC-BUS for NV	I/O	(DATA) Active 'L' for IIC data NV
16	SCK6	IIC-BUS for NV	OUT	(CLOCK) Active 'L' for IIC clock NV
17	SB6	IIC-BUS for TV	I/O	(DATA) Active 'L' for IIC data TV
18	SCK6	IIC-BUS for TV	OUT	(CLOCK) Active 'L' for IIC clock TV
19	DBGP0	DBGP0	I/O	Terminal for De-Bug 1
20	DBGP1	DBGP1	I/O	Terminal for De-Bug 2
21	DBGP2	DBGP2	IN	Terminal for De-Bug 3
22	PC0	ENA/DATA1	I/O	Writing on board (ENA/DATA1)
23	PC1	DATA0	I/O	Writing on board (DATA0)
24	PC2	CLK	IN	Writing on board (CLK)
25	PC3	TB in	IN	Detection for Video Signal (Time base: H)
26	PC4	Reserve	OUT	(Open)
27	P00	WDT out	OUT	Watch dog timer (Reserved: Open)
28	P01	AV SW1	OUT	Selection for AV Selector 1
29	P02	AV SW2	OUT	Selection for AV Selector 2
30	P03	AV SW3	OUT	Selection for AV Selector 3
31	P04	Reserve	OUT	(Open)
32	P05	Power Fail-1 in	IN	TV Power Error (Error: Low)
33	P06	STATUS in	IN	For factory use
34	P07	Ack out	OUT	For factory use
35	P20/SO1	Reserve	OUT	(Open)
36	P21/S11/SB1	Power Fail-2 in	IN	LVDS Power Error (Error: Low)
37	P22/SCK1	A-OUT Mute	OUT	Audio Out Mute (On: High)
38	P23	Audio MUTE	OUT	Audio Mute (On: High)
39	UTX	UART OUT	OUT	Digital Module microcomputer piece confidence
40	URX	UART IN	IN	Digital Module microcomputer piece confidence
41	P26/OSDCK1	THEM DET	OUT	(Open)
42	BL2	LED ON	OUT	(Open)
43	VSS2	Vss	IN	GND (0Vdc)
44	VDD2	Power IN	IN	5V (5Vdc±10%)
45	P10/SO0	Reserve	OUT	(Open)
46	P11/SI0/SB0	Reserve	OUT	(Open)

CONTROL PORT FUNCTIONS (Cont.)

System Control (CPU : IC801 Cont.)

Pin	Name	Function	I/O	Description
47	P12/SCK0	CRT/FPD	IN	Option Setting (CRT: High, FPD: Low)
48	P13	PDP/LCD	IN	Option Setting (PDP: High, LCD: Low)
49	PWMA	Reserve	OUT	(Open)
50	PWMB	Reserve	OUT	(Open)
51	PWMC	Reserve	OUT	(Open)
52	P17/PWMD	Reserve	OUT	(Open)
53	BL1	Reserve	OUT	(Open)
54	B	Reserve	OUT	(Open)
55	G	Reserve	OUT	(Open)
56	R	Reserve	OUT	(Open)
57	HSB	Hsync	IN	GND (0Vdc)
58	VSB	Vsync	IN	GND (0Vdc)
59	VSS1	Vss	IN	GND (0Vdc)
60	XT1	Xin	IN	Main Clock IN/OUT Fosc=8MHz
61	XT2	Xout	OUT	(Should be connected between IN/OUT pins.)
62	VDD1	Power IN	IN	5V (5Vdc±10%)
63	RESB	RESET in	IN	Reset terminal
64	FILT	FILT out	OUT	PLL Filter

Mode Switching Table

Mode	AVSW1 (pin28)	AVSW2 (pin29)	AVSW3 (pin30)
Analog Tuner	Low	High	Low
AV1(CVBS)	High	High	Low
AV1(S)	High	Low	Low
AV2(Component 2)	Low	Low	High
AV3(Component 3)	Low	Low	Low
Digital Tuner or HDMI	Low	Low	Low
HDMI (DVI)	Low	Low	Low

SCHEMATIC DIAGRAMS

NOTES ON SCHEMATIC DIAGRAMS

1. All resistance values in ohms K=1,000 M=1,000,000.
2. Resistors specified with resistance value are "1/6DJ."
3. Resistors specified with type of resistor, tolerance and resistance value are "1/4."
4. Unless otherwise noted on schematic, all capacitor values less than 1 are expressed in μF (Micro Farad), and the values more than 1 are in pF.
5. All capacitors are 50 WV rating unless otherwise noted.
6. Unless otherwise noted on schematic, voltage reading taken with VOM from point indicated to chassis ground. Voltage reading taken using color-bar signal VHF channel 5, all controls at normal. Line voltage at 120 volts. Some voltages may vary with signal strength.
7. Waveforms were taken with color-bar signal and controls set for normal picture. Waveforms marked with an * may vary with signal strength.
8. The Symbol  indicates a fusible resistor, which protects the circuit from possible short circuits.
9. Parts enclosed with  are related with X-radiation.
10. Isolation border line.  Cold Side  Hot Side
11. Schematic part location numbers may not always match the schematic symbols.
The schematic symbols and part descriptions are correct and should be used.
The part descriptions will be listed under the location number in the parts list.



ELECTROSTATICALLY SENSITIVE DEVICES

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

SERVICE NOTES:

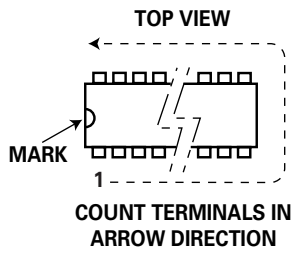
1. When replacing parts on circuit boards, clamp the lead wires to terminals before soldering.
2. When replacing high wattage resistors on circuit board, keep the resistor body 10 mm (3/8) from circuit board.
3. Keep wires away from high voltage and high temperature components.

PRODUCT SAFETY NOTICE

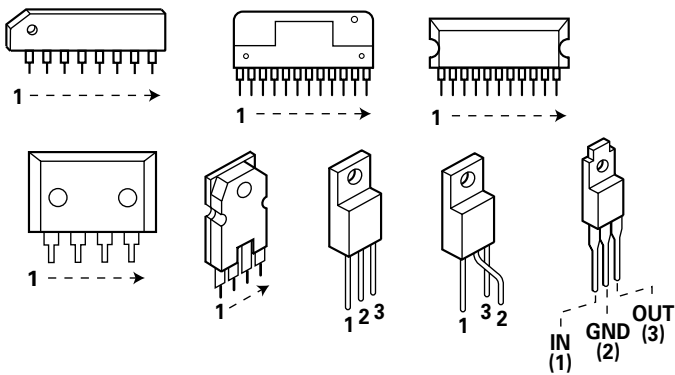
THE COMPONENTS DESIGNATED BY A STAR (★) ON THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A STAR NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

IC, DIODE, AND TRANSISTOR PIN LAYOUTS

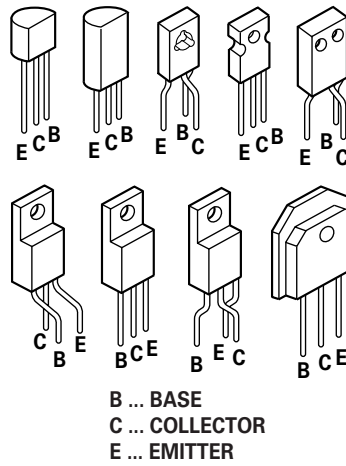
INTEGRATED CIRCUITS



SIDE VIEW

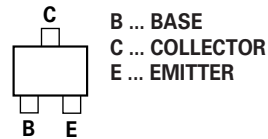


TRANSISTORS

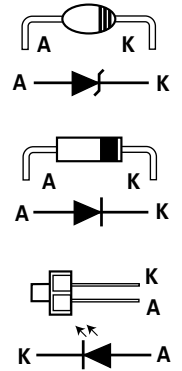


CHIP TRANSISTORS

TOP VIEW



DIODES

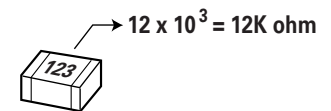


INFRARED EMITTING

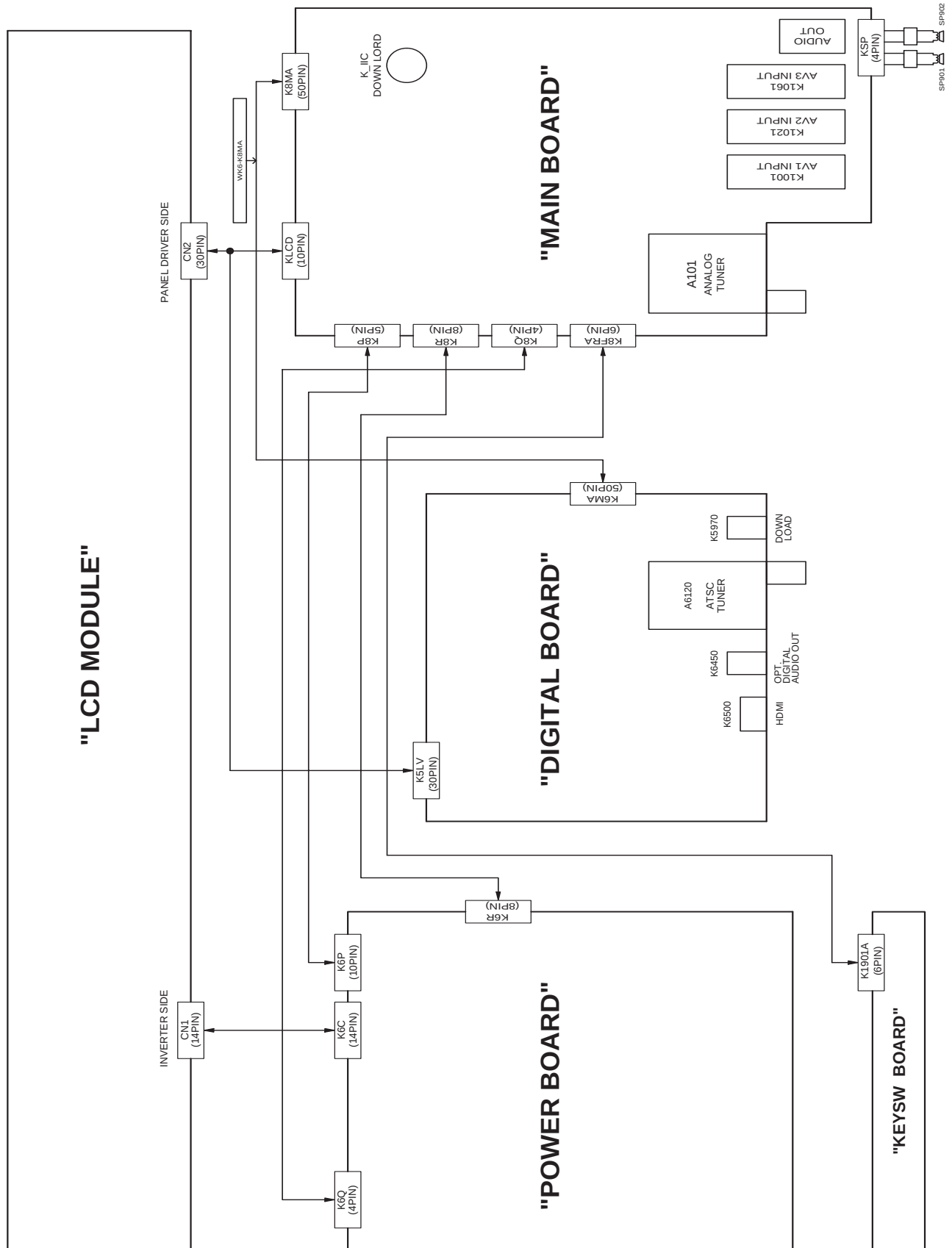
A ... ANODE
K ... CATHODE

CHIP RESISTORS

TOP VIEW

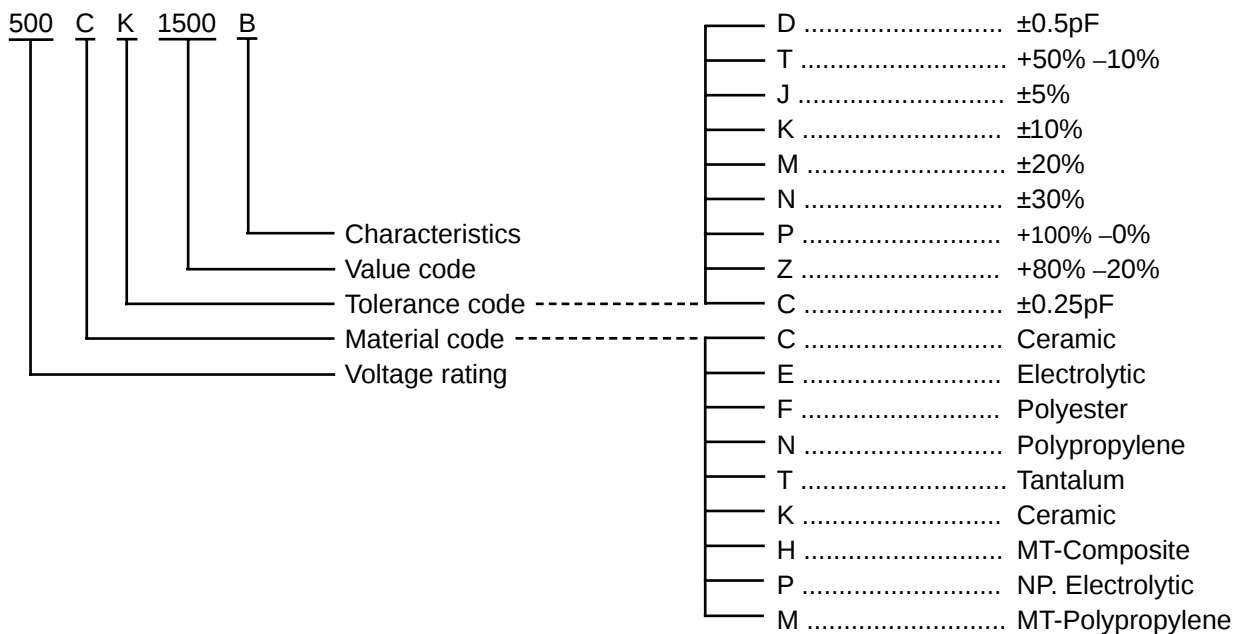


PC BOARD CONNECTIONS AND LOCATIONS

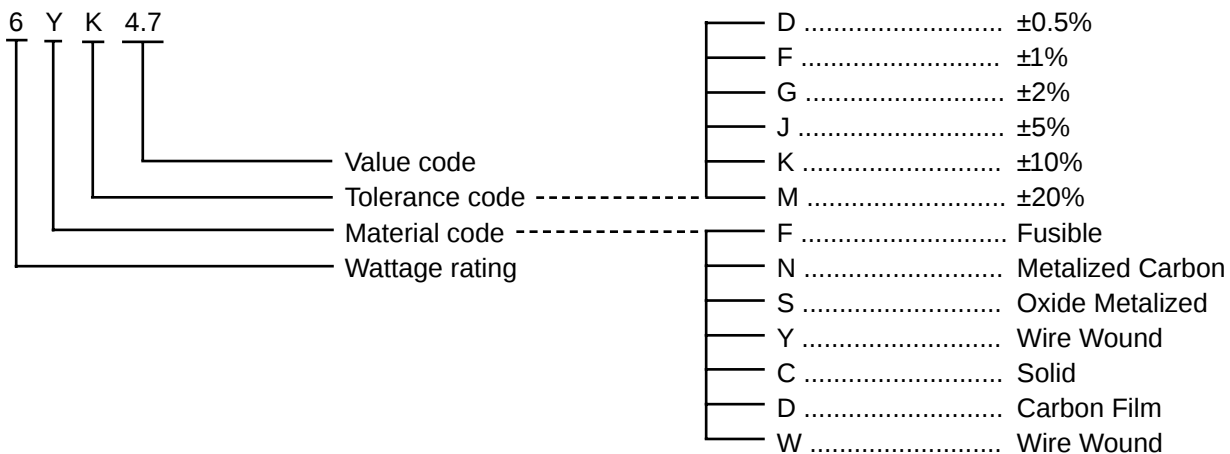


CAPACITOR AND RESISTOR CODE CHART

CAPACITOR (Example)



RESISTOR (Example)



For parts or service contact

Sanyo Manufacturing Corporation
P.O. Box 2000
3333 Sanyo Road
Forrest City, Arkansas 72335-2000

1. RESISTORS SPECIFIED WITH RESISTANCE VALUE ARE "1/6DJ"
2. RESISTORS SPECIFIED WITH TYPE OF RESISTOR, TOLERANCE AND RESISTANCE VALUE ARE "1/4".
3. ALL CAPACITORS ARE 50WV RATING UNLESS OTHERWISE NOTED.
4. PARTS MARKED WITH ARE RELATED WITH X-RADIATION.
5. THICK LINES ARE 15WATTS SUPPLY LINE.
6. BOTTOM VIEW OF TR & IC.

7. ISOLATION BOARDER LINE.

AT2

COLD SIDE

HOT SIDE

8. CHIP TRANSISTORS

C

B E

(Top View)

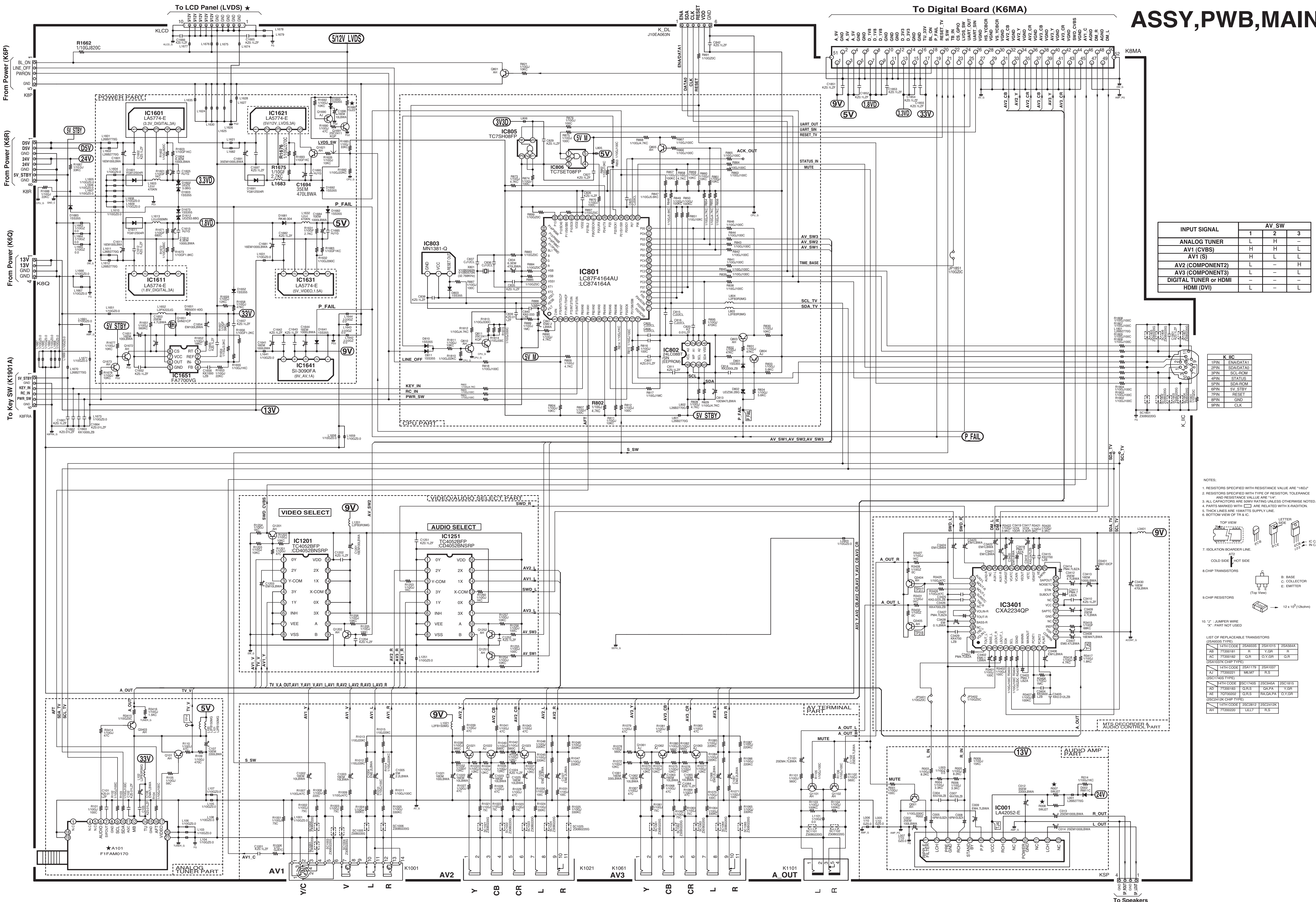
B: BASE
C: COLLECTOR
E: EMITTER

9. CHIP RESISTORS

 $\rightarrow 12 \times 10^3 (12 \text{ kohm})$

10. "J" : JUMPER WIRE
"X" : PART NOT USED

LIST OF REPLACEABLE TRANSISTORS (2SA933S TYPE)				
14TH CODE	2SA933S	2SA1015	2SA664A	
AB 71200181	R	Y.G.R	R	
AC 71200182	Q.R	Q.Y.G.R	Q.R	
(2SA1037K CHIP TYPE)				
14TH CODE	2SA1179	2SA1037		
AJ 71200221	M6,M7	R.S		
(2SC1740S TYPE)				
14TH CODE	2SC1740S	2SC945A	2SC1815	
AD 71200183	Q.R.S	Q.A,PA	Y.G.R	
AE 70700202	Q.R.S	RA,Q.A,PA	O.Y.G.R	
(2SC2412K CHIP TYPE)				
14TH CODE	2SC2812	2SC2412K		
AH 71200220	L6,L7	R.S		



INPUT SIGNAL	1	2	3
ANALOG TUNER	L	H	-
AV1 (S)	H	L	L
AV2 (COMPONENT2)	L	-	H
AV3 (COMPONENT3)	L	-	-
DIGITAL TUNER or HDMI	-	-	-
HDMI (DVI)	L	-	L

K IIC	
1PIN	ENADATA1
2PIN	SDA/DATA0
3PIN	SCL/ROM
4PIN	STATUS
5PIN	SDA-ROM
6PIN	SV STBY
7PIN	RESET
8PIN	GND
9PIN	CLK

- NOTES:
- RESISTORS SPECIFIED WITH RESISTANCE VALUE ARE "1/60J"
 - RESISTORS SPECIFIED WITH TYPE OF RESISTOR, TOLERANCE AND RESISTANCE VALUE ARE "14"
 - ALL CAPACITORS ARE 50V RATING UNLESS OTHERWISE NOTED.
 - PARTS MARKED WITH "C" ARE RELATED WITH K-RADIATION
 - THICK LINES ARE 12WATTS SUPPLY LINE.
 - BOTTOM VIEW OF TR & IC.
- TOP VIEW
7. ISOLATION BOARDER LINE: AT2
- COLD SIDE HOT SIDE
8. CHIP TRANSISTORS
9. CHIP RESISTORS
10. "J": JUMPER WIRE
"K": PART NOT USED
- LIST OF REPLACEABLE TRANSISTORS (S8A815 TYPE)
- | 14TH CODE | 25A119 | 25A103 | | |
|-----------|----------|--------|-----|---|
| AB | 71200181 | R | YGR | R |
| AC | 71200182 | Q | YGR | Q |
- LIST OF REPLACEABLE TRANSISTORS (S8C1405 TYPE)
- | 14TH CODE | 25A119 | 25A103 | | |
|-----------|----------|--------|-----|---|
| AD | 71200183 | Q | YGR | Q |
| AE | 71200184 | Q | YGR | Q |
- LIST OF REPLACEABLE TRANSISTORS (S8C2412K TYPE)
- | 14TH CODE | 25A119 | 25A103 | | |
|-----------|----------|--------|-----|---|
| AH | 71200220 | L | YGR | L |